SERVICE MANUAL

AE-2B chassis

MODEL

COMMANDER DEST.

CHASSIS NO.

MODEL

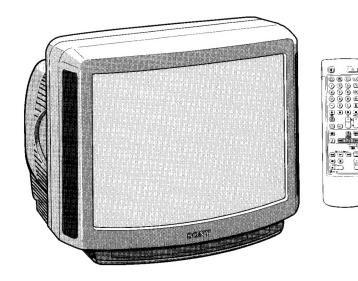
COMMANDER DEST.

CHASSIS NO.

KV-X2173B

RM-831

French SCC-G57P-A





TRINITRON® COLOR TV SONY®

| ITEM MODEL | Television System | Stereo System | Channel Coverage | Color System |
|------------|-------------------|------------------------|---|--|
| French | B/G/H, D/K L, I | GERMAN NICAM Stereo | L VHF:F02-F10 UHF:F21-F60 CABLE:B-Q B/G/H VHF:E2-E12 UHF:E21-E69 CABLE TV (1):S1-S41 CABLE TV (2):S01-S05, M1-M10, U1-U10 ITALIA VHF:A-H2 (C) UHF:21-69 I UHF:B21-B69 | PAL, SECAM NTSC4.43, NTSC3.58 (VIDEO IN) |

| MODEL | French |
|-------------------|--------|
| Power Consumption | 98W |

SPECIFICATIONS

Picture Tube

Hi-Black Trinitron

Approx. 54.5 cm (21 inches) (Approx. 51 cm picture measured

diagonally) 100° -deflection

Input/Output Terminals

[REAR]

Ö-1 21-pin Euro connector (CENELEC standard)

- inputs for audio and video signals

inputs for RGB

outputs of TV video and audio signals

→2/ 2 21-pin Euro connector

- inputs for audio and video signals

- inputs for S video

- outputs for audio and video signals (selectable)

→ Audio outputs (variable) - phono jacks

[FRONT]

€3 Video input - phono jack

Audio inputs - phono jacks

■3S video input 4-pin DIN

 Ω Headphone jacks: stereo minijack

Sound output 2 x 12W (RMS)

2 x 30W (Music)

Power requirements 220 - 240V

Dimensions Approx. 517x443x485 mm

Weight Approx. 28kg

Supplied accessories RM-831 Remote Commander (1)

IEC designation R6 battery (1)

Other features NICAM, FASTEXT.

[RM-831]

Remote control system infra

infrared control

Power requirements

1.5V dc1 battery IEC designation

R6 (size AA)

Dimensions

Approx. 65x225x21 mm (w/h/d)

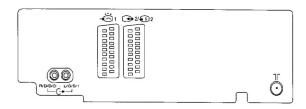
Weight

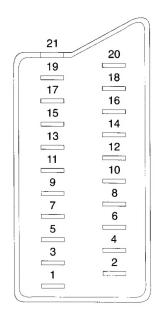
Approx. 157g (Not including batteries)

Design and specifications are subject to change without notice.

| Model name | KV-X2173B |
|------------------|-----------|
| Item | |
| Pal Comb | OFF |
| PIP | OFF |
| RGB Priority | ON |
| Woofer Box | OFF |
| | |
| Scart 1 | ON |
| Scart 2 | ON |
| Front in (3) | ON |
| Scart 4 | OFF |
| Dyn. Convergence | OFF |
| Projector | OFF |
| AKB in 16:9 mode | ON |
| Norm B/G | ON |
| Norm I | ON |
| Norm D/K | ON |
| Norm AUS | OFF |
| Norm L | ON |
| Norm SAT | OFF |
| Norm M | OFF |
| Nicam Sys. L | ON |
| Language Preset | Francais |

21 pin connector (尚-1 ⊕ 2 / ⊕ 4)





| Pin No. | 1 | 2 | 4 | Signal | Signal level |
|---------|---|---|---|------------------------------|--|
| 1 | | | | Audio output B | Standard level : 0.5V rms |
| ' | 0 | 0 | 0 | (right) | Output impedance :Less than 1kohm* |
| 2 | 0 | 0 | 0 | Audio input B | Standard level : 0.5V rms |
| | | | | (right) | Output impedance :More than 10kohm* |
| 3 | 0 | 0 | 0 | Audio output A (left) | Standard level : 0.5V rms Output impedance :Less than 1kohm* |
| 4 | 0 | 0 | 0 | Ground (audio) | |
| 5 | 0 | 0 | 0 | Ground (blue) | |
| 6 | 0 | 0 | 0 | Audio input A | Standard level : 0.5V rms |
| | | | | (left) | Output impedance :More than 10kohm* |
| 7 | 0 | • | • | Blue input | 0.7 ± 3dB, 75 ohms, positive |
| | | | | | High state (9.5 - 12V) : Part mode |
| 8 | 0 | 0 | | Function select | Low state (0 - 2V) : TV mode |
| | | | | (AV control) | Input impedance : More than 10k ohms |
| | _ | _ | - | 0 | Input capacitance : Less than 2nF |
| 9 | 0 | 0 | 0 | Ground (green) | |
| 10 | 0 | 0 | 0 | Open | |
| 11 | 0 | • | • | Green | Green signal: 0.7 ± 3dB, 75 ohms, positive |
| 12 | 0 | 0 | 0 | Open | · |
| 13 | 0 | 0 | 0 | Ground (red) | |
| 14 | 0 | 0 | 0 | Ground(blanking) | |
| | 0 | _ | _ | Red input | 0.7 ± 3dB, 75 ohms, positive |
| 15 | _ | 0 | 0 | (S signal) croma input | 0.3 ± 3dB, 75 ohms, positive |
| 16 | 0 | • | • | Blanking input | High state (1 - 3V) Low state (0 - 0.4V) |
| | _ | _ | _ | (Ys signal) Ground(video | Input impedance : 75ohms |
| 17 | 0 | 0 | 0 | output) | |
| 18 | 0 | 0 | 0 | Ground(video input) | |
| 19 | 0 | 0 | 0 | Video output | 1V ± 3dB,75ohms,positive sync:0.3V(-3+10dB) |
| | 0 | _ | - | Video input | 1V ± 3dB,75ohms,positive sync:0.3V(-3+10dB) |
| 20 | _ | 0 | 0 | Video input Y (S signal) | 1V ± 3dB,75ohms,positive sync:0.3V(-3+10dB) |
| 21 | 0 | 0 | 0 | Common ground (plug, sheild) | |

○ Connected ● Not Connected (open) * at 20Hz - 20kHz

| Pin No | Signal | Signal level |
|--------|--------------------|---|
| 1 | Ground | |
| 2 | Ground | |
| 3 | Y (S signal) input | 1V ± 3dB 75 ohm , positive Sync. 0.3V -3/+10 dB |
| 4 | C (S signal) input | 0.3V ± 3dB 75 ohm , positive Sync. |

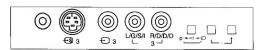


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| | | CAUTION | | | CARE | ONE PEINTE SUR LE TUBE CATHODIQUE OU | AU |

CAUTION

SHORT CIRCUIT THE ANODE OF THE PICTURE TUBE AND THE ANODE CAP TO THE METAL CHASSIS, CRT SHIELD, OR CARBON PAINTED ON THE CRT, AFTER REMOVAL OF THE ANODE CAP.

WARNING!!

AN ISOLATING TRANSFORMER SHOULD BE USED DURING ANY SERVICE WORK TO AVOID POSSIBLE SHOCK HAZARD, DUE TO A LIVE CHASSIS. THE CHASSIS OF THIS RECEIVER IS DIRECTLY CONNECTED TO THE AC POWER LINE.

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY SHADING AND MARKED A: ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL FOR SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLIMENTS PUBLISHED BY SONY.

BLINDAGE DU TUBE CATHODIQUE.

ATTENTION !!

AFIN D'EVITER TOUT RISQUE D'ELECTROCUTION PROVENANT D'UN CHÁSSIS SOUS TENTION, UN TRANSFORMATEUR D'ISOLEMENT DOIT ETRE UTILISÈ LORS DE TOUT DÈPANNAGE. LE CHÁSSIS DE CE RÈCEPTEUR EST DIRECTEMENT RACCORDÈ Á L'ALIMENTATION SECTEUR.

ATTENTION AUX COMPOSANTS RELATIFS Á LA SÈCURITÈ!!

LES COMPOSANTS IDENTIFIÈS PAR UNE TRAME ET PAR UNE MARQUE À SUR LES SCHÈMAS DE PRINCIPE, LES VUES EXPLOSÈES ET LES LISTES DE PIECES SONT D'UNE IMPORTANCE CRITIQUE POUR LA SÈCURITÈ DU FONCTIONNEMENT, NE LES REMPLACER QUE PAR DES COMPOSANTS SONY DONT LE NUMÈRO DE PIÈCE EST INDIQUÈ DANS LE PRÈSENT MANUEL OU DANS DES SUPPLÈMENTS PUBLIÈS PAR SONY.

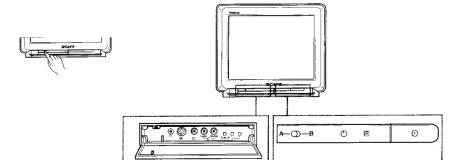
SECTION 1 GENERAL

Overview

The operating instructions mentioned here are partial abstracts from the Operating Instruction Manual. The page numbers of the Operating Instruction Manual remain as in the manual.

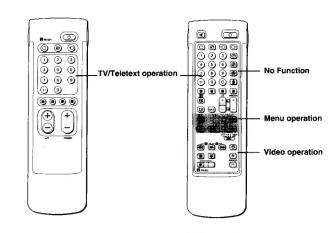
This section briefly describes the buttons and controls on the TV set and on the Remote Commander. For more information, refer to the pages given next to each description.

TV set - front



| Symbol | Name | Refer to page |
|-----------------|--|---------------|
| 0 | Main power switch | 13 |
| Ó | Standby indicator | 13 |
| A-CO-B | Stereo A/B indicators | 15 |
| Ω | Headphones jack | 20 |
| -33, -€ 3, -€ 3 | Input jacks (S-video/video/audio) | 20 |
| P-4D | Function selector (Programme/volume/input) | 13 |
| | Adjustment buttons for function selector | 13 |

Remote Commander RM-831



Simple side

Full-Function side

TV/Teletext operation

Note The SAT button does not operate with this TV.

| Symbol | Name | Refer to Pag |
|------------------------------|-------------------------------------|--------------|
| | Mute on/off button | 14 |
| Ф | Standby button | 13 |
| 0 | TV power on/TV mode selector button | 13 |
| € | Teletext button | 14 |
| ⊕ | Input mode selector | 14 |
| \ominus | Output mode selector | 21 |
| 1,2,3,4,5,6, 7,8,9, and 0 | Number buttons | 13 |
| -/ | Double-digit entering button | 13 |
| С | Direct channel entering button | 10 |
| 4 +/- | Volume control button | 13 |
| PROGR +/- | - Programme selectors | 13 |
| ₽ | Teletext page access buttons | 17 |
| • | Picture adjustment button | 15 |
| 1 | Sound adjustment button | 15 |
| \odot | On-screen display button | 14 |
| @ | Teletext hold button | 17 |
| 0 | Time display button | 14 |
| 9920 | Fastext buttons | 17 |

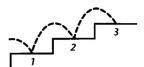
Menu operation

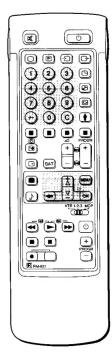
| Symbol | Name | Refer to Page |
|----------|------------------------|---------------|
| MENU | Menu on / off button | 7 |
| △+/▽− | Select buttons | 7 |
| OK | OK (confirming) button | 7 |
| ← | Back button | 7 |
| | ···· | |

Video operation

| Name | Refer to Pag | |
|-----------------------------------|---|--|
| Video equipment selector | 22 | |
| Video equipment operation buttons | 22 | |
| | Video equipment selector Video equipment operation | |

Step 3 Tuning in to TV Stations





Once you have set up the TV, you can choose the language of the menu. Then you should preset the channels (up to 60 channels) by choosing either the automatic or manual method.

The automatic method is easier if you want to preset all receivable channels at once. Use the manual method if you only have a few channels and want to preset channels one by one. The manual method is also convenient for allocating programme numbers to various video input sources.

Before you begin

- Check that the Full-Function side of the Remote Commander is
- Locate Menu operation buttons on the Remote Commander. They are shaded in the illustration at the left.

Choose a language

Depress ① on the TV.

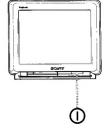
The TV will switch on. If the standby indicator on the TV is lit, press O or a number button on the Remote Commander.

2 Press the MENU button. The LANGUAGE menu appears. (See Fig. 1)

MENU

Select the language you want with \triangle + or ∇ -, and then press OK.





To go back to main menu: Keep pressing ←.

To go back to the normal TV picture: Press MENU. Normal TV picture will be restored after one minute if menu

Note on the Demo function:

functions are not selected.

If you choose Demo on the main menu, you can see a sequential demonstration of the menu functions. Press MENU to stop the function.

Display the Menu

Press the - button. The main menu appears. (See Fig. 2)

Now, choose one of the methods described overleaf:

"Preset Channels Automatically"

"Preset Channels Manually".

It is recommended to choose

"Preset Channels Automatically".

Then the channels are automatically stored as follows;

| Programme 1 | - | BBC1 |
|-------------|---|------------|
| Programme 2 | - | BBC2 |
| Programme 3 | _ | ITV |
| Programme 4 | _ | CH4 or S4C |







Fig. 2.

With this method, you can preset all receivable channels at once.

To stop automatic channel presetting:
Press ← on the Remote Commander.

Notes:

- After presetting the channels automatically, you can check which channels are stored on which programme positions. For details, see "Using the Programme Table" on page 16.
- You can sort the programme positions to have them appear on screen in the order you like. For details, see "Sorting Programme Positions" on page 10.
- Programme names are automatically taken from Teletext if available. If not please refer to page 11 "Captioning a station name" for further information.

Use this method if there

are only a few channels

channels one by one.

various video input

If you have made a mistake:

Keep pressing -. To go back to the

Press ← to go back to the previous position.

To go back to main

sources.

menu

You may also allocate

programme numbers to

in your area to preset or if you want to preset

Preset channels automatically

- Select Preset with △+ or ▽- and press OK. The PRESET menu appears. (See Fig. 3.)
- 2 Select Auto Programme with △+ or ▽- and press OK. The AUTO PROGRAMME menu appears. (See Fig. 4.)
- 3 Press OK repeatedly until the first element of the "PROG" number is highlighted.
- Select the programme (number button) from which you want to start presetting. Select the first element of the double-digit number with △+ or ▽- or the number buttons (e.g. For "04", select "0" here) and press OK. The second element of "PROG" will be highlighted.
- 5 Select the second element of the double-digit number with △+ or ▽- or the number buttons (e.g. For "04", select "4" here) (See Fig. 5.) and press OK.
- 6 The automatic channel presetting starts. When presetting is finished, the preset menu reappears. All available channels are now stored on successive number buttons. (Press MENU to restore normal TV picture).



Fig. 3.



Fig. 4.



Fig. 5.

Preset channels manually
Select Preset with △+ or ▽- and press OK.
The PRESET menu appears. (See Fig. 6.)

2 Select Manual Programme Preset with \triangle + or ∇ - and press OK.

The MANUAL PROGRAMME PRESET menu appears. (See Fig. 7.)

PRESET

▶ Auto Programme
Manual Programme Preset
Programme Sorting
Parental Lock

Select ■■ and press OK

Fig. 6.

| PROG | SYS | CH SEARCH LABEL AFT |
|------------|-----|---------------------|
| ▶ 1 | I | C21 (off) (on) |
| 2 | I | C34 (off) (on) |
| 3 | I | C33 (off) (on) |
| 4 | 1 | C45 (off) (on) |
| 5 | I | C35 (off) (on) |
| 6 | Ī | C44 (pff) (on) |
| 7 | Ī | C54 (off) (on) |
| 8 | I | C30 (off) (on) |
| 9 | Í | C38 (off) (on) |
| 10 | Ť | C59 (off) (on) |

Fig. 7.

normal TV picture Press MENU.

- 3 Using △+ or ▽-, select the programme position (number button) to which you want to preset a channel, and press OK.
- **4** Keep pressing ∇- to select programme numbers higher than 10.

2 I C (off) ---- (on)

Select, if necessary, a video input source (EXT) with △+ or ▽-. Then press OK. The first element of the CH position will be highlighted. (See Fig. 8.)

5 Using △+ or ▽-, select C (to preset a regular channel), or F (to tune in by frequency) and press OK.
The first element of the "CH" number will be highlighted.

The first element of the "CH" number will be highlighted. If you have selected EXT in step 5, select the video input source with \triangle + or ∇ -. (See Fig. 9.)

3 EXT AY1 ----

Please refer to "Television Channel Number Guide" on page 24.

If you have made a

Keep pressing -

TV picture

Press MENU.

Press to go back to the previous position.

To go back to main menu

To go back to the normal

mistake:

To tune in a channel by

After selecting F in step

the number buttons.

6, enter three digits using

frequency:

Press OK.

There are two ways to preset channels. If you know the channel number, go to step "7-Manual",

01

if you don't know the channel number, go to step "7- Search".

7 Manual

- Select the first element of the "CH" number with △+ / ▽- or the number buttons and press OK.
 The second element of the "CH" number will be highlighted.
- -b Select the second element of the number with △+ / ▽- or the number buttons.
 The selected number appears. (See Fig. 10.)
- Press OK
 The "SEARCH" position is highlighted and the selected channel is now stored. (See Fig. 11.)
- -d Press OK until the cursor appears by the next programme position.
- -e Repeat steps 3 to 7 to preset other channels.

7 Search

- Press OK repeatedly until the colour of the SEARCH position changes.
- -b Start searching for the channel with △+ (up) or ▽- (down). The CH position changes colour. (See Fig. 12.) The CH number starts counting up or downwards. When a channel is found, it stops. (See Fig. 13.)
- -c Press OK if you want to store this channel. If not, press △+ or ▽to continue channel searching.
- -d Press OK until the cursor appears by the next programme position.
- Repeat steps 3 to 7 to preset other channels.

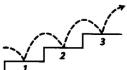


Fig.11.

- 2 1 C35 (off) ----- (on)
- 2 1 C50 (▲▼) ---- (on)

Fig.13.

Additional Presetting Functions

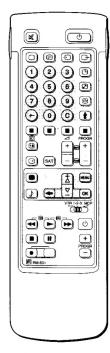


This section shows you additional presetting functions such as sorting or skipping programme positions, captioning a station name, manual fine-tuning, and using the parental lock.

Before you begin

- Check that the Full Function side of the Remote Commander is visible
- · Locate the Menu operation buttons.

PROGRAMME SORTING



For higher programme positions:
The display scrolls automatically.

If you have made a mistake:
Press ← to go back to the previous position.

To go back to main menu:
Keep pressing ←.
To go back to the normal TV picture:
Press MENU.

Sorting Programme Positions

With this function, you can sort the programme positions to a preferable order.

- 1 Press MENU to display the main menu.
- 2 Select Preset with △+ or ∇- and press OK. The PRESET menu appears.
- 3 Select Programme Sorting with △+ or ▽- and press OK. The PROGRAMME SORTING menu appears. (See Fig. 14.)
- 4 Using △+ or ▽-, select the programme position you want to move to another programme position and press OK. The colour of the selected position changes. (See Fig. 15.)
- 5 Using △+ or ▽-, select the programme position to which you want to move the selected programme and press OK. Now the two programme positions have been sorted. (See Fig. 16.)
- 6 Repeat steps 4 and 5 to exchange other programme positions.

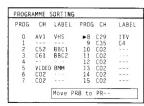


Fig. 14.

0 AV1 VHS 8 C29 []V

| PROG | CH | LABEL | PROG | CH | LABEL |
|---------------|-------|-------|------|-----|-------|
| 0 | AV1 | ¥HS. | 8 | C02 | |
| 1 | | | 9 | C35 | C4 |
| ▶ 2 3 4 | C29 | ITV | 10 | C02 | |
| 3 | C52 | BBC1 | 11 | C02 | |
| 4 | C61 | BBC2 | 12 | C02 | |
| 5 | | | 13 | C02 | |
| 5 6 | VIDEO | 8MM | 14 | C02 | |
| 7 | COS | | 15 | C02 | |

Fig. 16.

Tuning in a Channel Temporarily

You can tune in a channel temporarily, even when it has not been preset. Use the buttons on the Full-Function side of the Remote Commander.

- 1 Press C on the Remote Commander. The indication "C" appears on the screen.
- 2 Enter the double-digit channel number using the number buttons (e.g. for channel 4, first press 0, then 4). The channel appears. However, the channel will not be stored.



MANUAL PROGRAMME PRESET

Skipping Programme Positions

You can skip unused programme positions when selecting programmes with the PROGR +/- buttons. However, the skipped programmes may still be called up when you use the number buttons.

- 1 Press MENU to display the main menu.
- 2 Select Preset with △+ or ▽- and press OK. The PRESET menu appears.
- 3 Select Manual Programme Preset with △+ or ▽- and press OK.
 The MANUAL PROGRAMME PRESET menu appears. (See Fig.17.)
- 4 Using △+ or ▽-, select the programme position which you want to skip and press OK. The "SYSTEM" position changes colour.
- 5 Press △+ or ▽- until --- appears in the SYSTEM position. (See Fig. 18.)
- 6 Press OK. (See Fig. 19.) When you select programmes using the PROGR +/- buttons, the programme position will be skipped.
- 7 Repeat steps 4 to 6 to skip other programme positions.



| PROG | SYS | CH S | SEARCH | LABEL AFT |
|------------|-----|------|--------|----------------|
| ▶ 1 | I | | (off) | - · · · · (on) |
| 2 | i | C24 | (off) | (on) |
| 3 | I | €25 | (off) | (on) |
| 4 | I | | (off) | (on) |
| 4 | I | C28 | (off) | (on) |
| 6 | Ī | C22 | (off) | (on) |
| 7 | İ | C26 | (off) | (on) |
| 8 | Ī | C25 | (off) | (on) |
| 9 | Ť | C23 | (off) | (on) |
| 10 | Ī | 0.29 | (nff) | (on) |

Fig. 17.



Fig. 19.

MANUAL PROGRAMME PRESET

If you have made a

Press - to go back to

the previous position.

To go back to main

Keep pressing -.

To go back to the

Press MENU.

normal TV picture:

mistake:

menu:

Captioning a Station Name

Programme names are automatically taken from Teletext if available. However you can also "name" a channel or an input video source using up to five characters (letters or numbers) to be displayed on the TV screen (e.g. BBC1). Using this function, you can easily identify which channel or video source you are watching.

- 1 Press MENU to display the main menu.
- 2 Select Preset with △+ or ▽- and press OK. The PRESET menu appears.
- 3 Select Manual Programme Preset with △+ or ▽- and press OK.
- The MANUAL PROGRAMME PRESET menu appears. (See Fig. 20.)
- 4 Using △+ or ▽-, select the programme position you want to caption and press OK repeatedly until the first element of the LABEL position is highlighted.
- 5 Select a letter or number with △+ or ▽- and press OK. The next element will be highlighted.
 Select other characters in the same way. If you want to leave an element blank, select and press OK. (See Fig. 21.)
- 6 After selecting all the characters, press OK repeatedly until the cursor appears by the next programme position (at the left margin). Now the caption you chose is stored. (See Fig. 22.)
- 7 Repeat steps 5 and 6 to caption names for other channels.

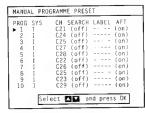


Fig. 20.

| 2 | I | C25 | (off)S | (on) |
|---|---|-----|--------|------|

Fig. 21.

| ▶ 2 I | C25 (off) SONY - | (on) |
|-------|------------------|------|

Fig. 22.

MANUAL PROGRAMME PRESET

Manual Fine-Tuning

Normally, the AFT(automatic fine-tuning) is already operating. However, if the picture is distorted, you can use the manual fine tuning function to obtain better picture reception.

- 1 Press MENU to display the main menu.
- 2 Select Preset with \triangle + or ∇ and press OK. The PRESET menu appears.
- 3 Select Manual Programme Preset with △+ or ▽- and press OK.
 The MANUAL PROGRAMME PRESET menu appears. (See Fig. 23.)
- 4 Using △+ or ▽-, select the programme position corresponding to the channel which you want to manually fine-tune, and press OK repeatedly until the AFT position changes colour.
- Fine-tune the channel with △+ or ▽- so that you get the best TV reception. As you press the cursor buttons, the frequency changes from -15 to +15. (See Fig. 24.)
- 6 After fine tuning, press OK. The cursor appears beside the next programme position (at the left margin). (See Fig. 25.) Now the fine-tuned level is stored.
- 7 Repeat steps 4 to 6 to fine-tune other channels.

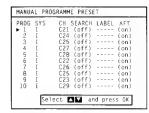


Fig. 23.

| 2 | I | C35 (off) | (-3) | |
|------|-----|-----------|------|--------|
| Fig. | 24. | | | |
| 2 | I | C40 (off) | (-3) | \neg |
| | | C45 (off) | (on) | |

Fig. 25.

beginning and select "ON" in step 5.

PARENTAL LOCK

(automatic fine tuning):

To reactivate AFT

Repeat from the

Parental Lock

You can prevent undesirable broadcasts from appearing on the screen. We suggest you use this function to prevent children from watching programmes which you consider unsuitable.

- 1 Press MENU to display the main menu.
- 2 Select Preset with \triangle + or ∇ and press OK. The PRESET menu appears.
- 3 Select Parental Lock with △+ or ▽- and press OK. The PARENTAL LOCK menu appears. (See Fig. 26.)
- 4 Using △+ or ▽-, select the programme position you want to block and press OK. The CH and LABEL, of the selected programme number, change colour indicating that this programme is now blocked.
- Repeat step 4 to block other programme positions.

PARENTAL LOCK PROG CH LABEL PROG CH LABEL 0 AVI VHS 8 C38 — 1 C25 B8C2 9 C39 — 2 C42 B8C1 10 C40 — 3 C26 C4 11 C41 — 4 C34 ITV 12 C42 — 5 C35 — 13 C43 — 6 C36 — 14 C44 — 7 C37 — 15 C45 — Select IM and press DK

Fig. 26.

| | PROG CH | LABEL | PROG | CH | LABEL | |
|-----|---------|-------|------|----|-------|--|
| | | VHS | | | | |
| | 1 C22 | BBC2 | | | | |
| | 2 C42 | | | | | |
| | ▶ 3 C26 | C4 | | | | |
| - 1 | | | | | | |

Fig. 27.

If you try to select a programme that has been blocked:

The message "LOCKED" appears on the blank TV screen.

Cancelling blocking

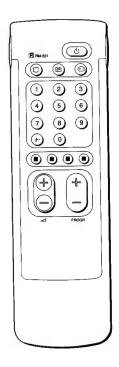
(See Fig. 27.)

- On the PARENTAL LOCK menu, select the programme position you want to unblock with △+ or ▽−.
- 2 Press OK

The CH and LABEL change to normal colour indicating that the blocking has been cancelled.

Olocical in Carlo Hones

Watching the TV



If no picture appears when you depress $\ensuremath{\mathbb{O}}$ on the TV

and if the standby indicator on the TV is lit, the TV is in standby mode. Press □ or one of the number buttons to switch it on.

This section explains the basic functions you use while watching TV. Most of the operations can be done using the simple side of the Remote Commander.

Switching the TV on and off

Switching on

Depress Oon the TV.

Switching off temporarily

Press \circlearrowleft on the Remote Commander. The TV enters standby mode and the standby indicator on the front of the TV lights up.

To switch on again

Press O, PROGR +/-, or one of the number buttons on the Remote Commander.

Switching off completely

Depress ① on the TV.

Selecting TV Programmes

Press PROGR +/- or press number buttons.

To select a double-digit number

Press -/- -, then the numbers. For example, if you want to choose 23, press -/- -, 2, and 3

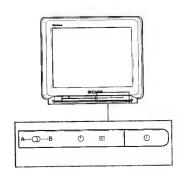
Adjusting the Volume

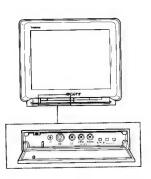
Press ⊿ +/-.

Operating the TV Using the Buttons on the TV

With the buttons on the TV, you can select programmes, adjust the volume, and select video input sources.

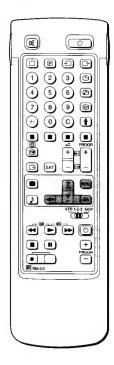
- Press → → button repeatedly until the programme number, △ (for volume), or → (for video input picture) appears. Then adjust with the -/+ buttons.
- Press –/+ buttons to switch on the TV from the standby mode
- Press -/+ simultaneously to reset picture and sound controls to the factory preset level (RESET symbol → is displayed).





For details of the teletext operation, refer to page 17.

For details of the video input picture, refer to page 21.



To make the Programme Table disappear Press MENU.

Watching Teletext or Video Input

Watching teletext

- Press
 to view the teletext.
- Press three number buttons to select a page.
- Press one of the coloured buttons for fastext operation.

 Press (PAGE +) or (PAGE -) for the next or preceeding
- page.
 To go back to the normal TV picture, press .

Watching a video input picture

Press Tepeatedly until the desired video input appears. To go back to the normal TV picture, press .

More Convenient Functions

Use the Full-Function side of the Remote Commander.

Displaying the on screen indications

- Press ① once to display all the indications. They will disappear after some seconds.
- Press twice to have the programme number and label stay on screen. Press twice again to make indications disappear.

Muting the sound.

Press .

To resume normal sound, press 🕸 again.

Displaying the time

Press . This function is available only when teletext is broadcast.

To make the time display disappear, press @ again.

Displaying of the Programme Table

Press OK. A Programme Table will be displayed on the right side of the TV screen (See. Fig.28)

Selecting of TV programmes

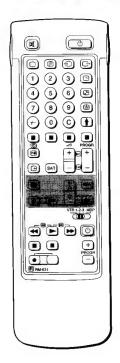
Press PROGR +/- or select the desired programme position using \triangle + or ∇ - and press OK.



Fig.28.

Adjusting and Setting the TV Using the Menu

PICTURE CONTROL SOUND CONTROL



Adjusting the Picture and Sound

Although the picture and sound are adjusted at the factory, you can adjust them to suit your own taste. In addition, you can change the aspect ratio of the TV display for wide screen effect. You can also select dual sound (bilingual) programmes when available or adjust the sound for listening with the headphones $(\widehat{\Omega})$.

Of

Press MENU and select Picture Control or Sound Control, then press OK.

The PICTURE CONTROL or SOUND CONTROL menu appears. (See Fig. 29 or Fig. 30)

- 2 Using △+ or ▽-, select the item you want to adjust and press OK.The selected item changes colour. (See Fig. 31)
- 3 Adjust the setting with △+ or ▽ and press OK. The cursor appears beside the next item (at the left margin). (See Fig. 32) For the effect of each control, see the table below.
- 4 Repeat steps 2 and 3 to adjust other items.



Fig. 29.

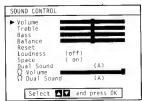


Fig. 30.



Fig. 32.

If you have made a mistake:

Press to go back to the previous position.

To go back to the main menu:

Keep pressing ←.
To go back to the normal TV picture:
Press MENU.

Note:

HUE is only available for NTSC colour system.

Note on LINE OUT:

The audio level and the dual sound mode output from the → jack on the rear correspond to the HEADPHONES VOLUME and DUAL SOUND settings.

When watching a video input source with stereo sound:

You can select DUAL SOUND to change the sound.

Effect of each control

| PICTURE CONTROL | Effect |
|-----------------|--|
| Contrast | Less ——I—— More |
| Brightness | Darker ——I—— Brighter |
| Colour | Less ——I—— More |
| Hue | Greenish ——I—— Reddish |
| Sharpness | Softer ——I—— Sharper |
| Reset | Resets picture to the factory preset levels. |
| Format | 4:3: Normal 16:9: Wide screen effect |

| SOUND CONTROL | Effect |
|---------------|--|
| Volume | Less —I— More |
| Treble | Less —I— More |
| Bass | Less — More |
| Balance | More left —I— More right |
| Reset | Resets sound to the factory preset levels. |
| Loudness | off: Normal on: When listening to low volume sound. |
| Space | off: Normal on: Obtain acoustic sound effect. |
| Dual Sound | A: left channel B: right channel stereo mono The selected mode of the A-OD-B indicator on the TV lights up. (for NICAM broadcasts see next page) |
| Headphones: | |
| ○ Volume | Less — More |
| ∩ Dual Sound | A: left channel B: right channel STEREO MONO |

Selecting Nicam Broadcasts*

This Sony TV has been designed to select Nicam broadcasts when available. Whenever a Nicam broadcast is received, "NICAM" appears briefly on the screen. When the Nicam programme ends, or you switch channels to one without Nicam, the A-O-B indicators, on the TV will switch off.

Nicam programmes can be broadcast in two ways. You may select the sound you want to hear in either of these by first following the instructions explained on page 15.

| Service Being Broadcast | Action | Effect | Indicat the TV | ion on A- ⁻ D-B |
|----------------------------|-----------------------------|--------------------|-------------------|-------------------------------|
| Stereo | Press | Stereo Nicam | 111/ | XII/2 |
| | \triangle + or ∇ – | mono | | |
| Press △+ or ▽– agai | in to return to stereo Nica | m (mono 2-channel) | | |
| Bilingual | press | Channel A Nicam | 1111 | |
| | \triangle + or ∇ – | Channel B Nicam | | 7/11/2 |
| | | mono | | |

^{*} Depending on availability of service.

PROGRAMME TABLE

To go back to the normal TV picture: Press MENU.

Using the Programme Table

On this table, you can see which channel is preset to which programme position. You can also select programmes using this table.

From the main menu, select Programme Table with △+ or ∇- and press OK.

The PROGRAMME TABLE menu appears. (See Fig. 33)

To scroll to higher programme numbers, press ∇-.

2 To select a programme using this menu select the programme number with △+ or ▽- and press OK.

The selected programme appears.

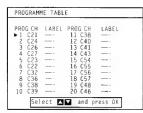


Fig. 33.

TIMER

To switch off the timer: Select "OFF" in step 3.

To check the remaining time:
Press :

Using the Sleep Timer

You can select a time period after which the TV automatically switches into standby mode.

 From the main menu, select Timer with △+ or ▽- and press OK.

The TIMER menu appears. (See Fig. 34.)

2 Press OK.

The time period option changes colour.

3 Select the time period with △+ or ▽−.

The time period (in minutes) changes as follows:

10→20→30→40→50→60→70→80→90

↑_____OFF _____

4 After selecting the time period, press OK.

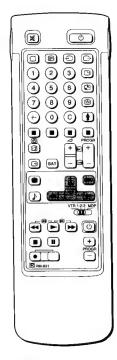
The cursor moves back to the left margin and the timer starts

One minute before the TV switches into standby mode, a message is displayed on the screen.



Fig. 34.

Teletext



Note:

Teletext errors may occur if the broadcasting signals are weak.

With the simple side of the Remote Commander:

You can switch teletext on and off, operate Fastext, and directly select page numbers. TV stations broadcast an information service called Teletext via the TV channels. Teletext service allows you to receive various information pages such as weather reports or news at any time you want. For advanced teletext operation, use the buttons on the Full-Function side of the Remote Commander.

Direct Access Functions

Switching Teletext on and off

- Select the TV channel which carries the teletext broadcast you want to watch.
- Press to switch on teletext. A teletext page will be displayed (usually the index page). If there is no teletext broadcast, "No text available" is displayed on the information line at the top of the screen.

To switch teletext off

Press O.

Selecting a teletext page With direct page selection

Use the number buttons to input the three digits of the chosen page number.

If you have made a mistake, type in any three digits. Then reenter the correct page number.

With page-catching

- 1 Select a teletext page with a page overview (e.g. index page).
- 2 Press OK. Using △+ or ▽-, select the desired page. "Page Catching" will be displayed on the information line. Press OK. The requested page will appear in a few seconds.

Press
to resume normal teletext reception.

Accessing next or preceding page

Press (PAGE +) or (PAGE −). The next or preceding page appears.

Superimposing the teletext display on the TV programme

- Press
 again to resume normal teletext reception.

Preventing a teletext page from being updated

- Press [®] (HOLD). The HOLD symbol "[®]" is displayed on the information line.
- Press
 to resume normal teletext reception.

Using Fastext

With Fastext you can access pages with one key stroke. When a Fastext page is broadcast, a colour-coded menu will appear at the bottom of the screen. The colours of this menu correspond to the red, green, yellow and blue buttons on the Remote Commander.

Press the corresponding coloured button on the Remote Commander which corresponds to the colour-coded menu. The page will be displayed after some seconds.

Note:

Fastext operation is only possible, if the TV station broadcasts Fastext signals.



Note:

Some of the features may not be available depending on the Teletext service.

Note on Subtitles:

If the subtitles are not broadcast on page 888, please select the subtitle page using the number buttons.

To cancel the request: Select "Subpage" and press OK.

Using the Teletext Menu

This TV is provided with a menu-guided teletext system. When teletext is switched on, you can use the menu buttons to operate the teletext menu. Select the teletext menu functions in the following way:

- Press MENU. The menu will be superimposed on the teletext display. (See Fig. 35)
- 2 Using △+ or ▽-, select the teletext function you want and press OK. (See Fig. 36)

USER PAGES/PRESET USER PAGES

See page 19 for information about presetting and operating the user pages.

INDEX

The index will give you an overview of the contents of the teletext and the page numbers.

TOP/BOTTOM/FULL

For convenient reading of a teletext page, you can enlarge the teletext display with the ability to scroll up and down the screen. After having selected the function, an information line Top/Bottom/Full will be displayed. (See Fig. 37)

Press \triangle + for Top to enlarge the upper half. For Bottom keep pressing ∇ -, to enlarge the lower half. Press OK for Full to resume the normal size.

Press 🗐 to resume normal teletext reception.

TEXT CLEAR

After having selected the function, you can watch a TV programme while waiting for a requested teletext page to be captured (The symbol changes colour) (see Fig. 38).

Press (to view the requested page.

SUBTITLES

Your teletext service will inform you if a TV programme is subtitled. After having selected the function the subtitles will be displayed.

REVEAL

Sometimes pages contain concealed information, such as answers to a quiz. The reveal option lets you disclose the information. After having selected the function, an information line "REVEAL ON/OFF" will be displayed. (See Fig. 39)

Using \triangle + or ∇ -, select ON to reveal the information or OFF to conceal it again.

Press (a) to resume normal teletext reception.

TIME PAGE

This function is not available.

SUBPAGE

You may want to select a particular teletext page from several subpages which are rotated automatically. After having selected the function, an information line will be displayed.

To select the desired subpage, enter four digits using PROGR+/- or the number buttons. (e.g. enter 0002 for the second page of a sequence).



Fig. 35.



Fig. 36.

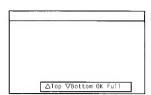


Fig. 37.

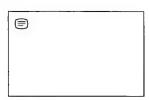


Fig. 38.

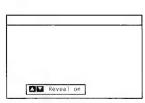


Fig. 39.

If two broadcasting stations use the same Teletext:

You can preset one bank to 2 different programme positions.

User Page Bank System

You can store up to 30 pages in the "Teletext page bank system". In this way you have quick access to the pages you watch frequently.

Storing pages

There are 5 "banks" (A to E) for 5 teletext stations. In each bank you can store 6 preferred pages (P1 to P6).

- 1 Press @ (if Teletext is not on already) and MENU to show the TELETEXT MENU display.
- **2** Select PRESET USER PAGES with \triangle + or ∇ and press OK.
- 3 Select the desired bank with △+ or ∇- and press OK. The cursor will go to the first position (P1) of the preferred pages.
- Input the three digits of your first preferred page with the number buttons and press OK. The cursor will go to the second position.
- 5 Repeat step 4 for the other 5 page numbers you want to preset. If you do not want to preset all 6 page numbers available, press OK without inserting any number. After having finished the presetting press OK repeatedly until the cursor appears besides the next bank at the left margin.
- **6** Select Allocate Bank with \triangle + or ∇ and press OK.
- 7 Select the programme position for which you have preset pages with △+ or ▽- and press OK. (See Fig. 40)
- 8 Select the desired bank with △+ or ▽- (Banks A to E are available) and press OK.
- 9 Repeat steps 3 to 8 for the other 4 banks available.

Displaying User Pages

- 1 Select MENU.
- 2 Select User Pages with △+ or ▽- and press OK. A table of the stored preferred pages will be displayed. (See Fig. 41)
- 3 Select the desired page with △+ or ▽- and press OK. The page will be displayed after some seconds.

You can use the coloured buttons on the Remote Commander to have quick access to the first four User pages. Page 1 corresponds to the red button, P 2 to the green one, P 3 to the yellow one and P 4 to the blue button.

To select the desired page press the respective coloured button while you are in TV mode. Now the Page number of this teletext page will appear in white at the top in the left-handed corner of the TV screen. When the page number changes colour, the page is available. Press the coloured button again to display the page.



Fig.40.



Fig. 41.

Connecting and Operating Optional Equipment

Connecting Optional Equipment

You can connect optional audio-video equipment to this TV such as VTRs, video disc players, and stereo systems.

To connect a VTR using the iterminal: Connect the aerial output of the VTR to the aerial terminat if of the TV.

We recommend that you tune in the signal to programme number "0". For details see "Preset Channels Manually" on page 8.

If the picture or the sound is distorted:
Move the VTR away from the TV.

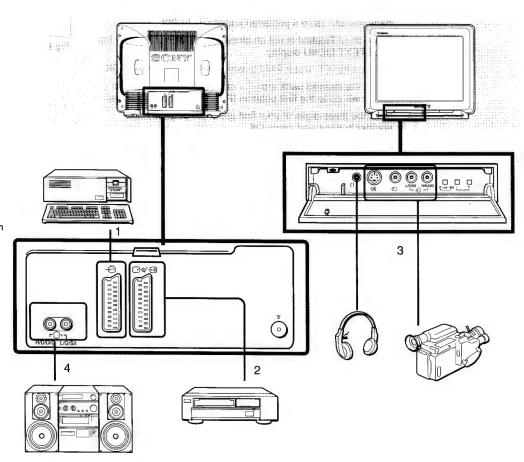
S video input (Y/C input):

Video signals may be separated into Y (luminance or brightness) and C (chrominance) signals. Separating the Y and C signals prevents them from interfering with one another, and therefore improves picture quality (especially luminance). This TV is equipped with 2 S Video input jacks through which these separated signals can be input directly.

When connecting a monaural VTR:

Connect only the white

jack to both the TV
and VTR.



| Acceptable input signal | Available output signal |
|---|----------------------------------|
| 1 Normal audio/video and RGB signal | Video/audio from TV tuner |
| 2 Normal audio/video and S video signal | Video/audio from selected source |
| 3 Normal audio/video and S video signal | No outputs |
| 4 No inputs | Audio signal (variable) |

Checking and selecting the input and output sources using the menu

You can display the menu to see which input sources are selected for the TV screen, and which output source is selected. You can also select them on the menu display.

1 Select Video Connection with △+ or ▽- and press OK. The VIDEO CONNECTION menu appears. (See Fig. 42)

You can see which source is selected for the TV and for the output. If you want to select the input and output on this menu, go on to the next step.

- 2 Select TV Screen (input source for the TV screen) or output (output source) with △+ or ▽- and press OK. One of the source items changes colour. (See Fig. 43)
- 3 Select the desired source with △+ or ▽-. (See Fig. 44) For details about each source, see the table on page 21.
- 4 Press OK.

The selected source is confirmed, and the cursor appears. (See Fig. 45)

5 Repeat steps 2 to 4 to select the source for other inputs or outputs.

VIDEO CONNECTION TV 1PLUS AVI VHS 1 RGB COMPU TV 1SCREEN AVI VHS 2 VC2 CAM 2 VC3 SETA VC3 VHS 3 AVI VC4 CAM 1 Select NV and press OK

Fig. 42.

| 1 V AV1 | 1PLUS VHS 1 | ΤV | Screen | |
|------------|----------------|----|--------|--|
| Fig. 4 | 3. | | | |

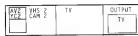


Fig. 44.

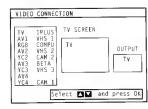


Fig. 45.

Remote Control of Other Sony Equipment

You can use the TV Remote Commander to control most Sony remote-controlled video equipment such as: Beta, 8mm or VHS VTRs or video disc players.

Tuning the Remote Commander to the equipment

1 Set the VTR 1/2/3 MDP selector according to the equipment you want to control:

VTR 1: Beta or ED Beta VTR

VTR 2: 8mm VTR

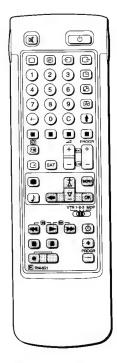
VTR 3: VHS VTR

MDP: Video disc player

2 Use the buttons indicated in the illustration to operate the additional equipment.

If your video equipment is furnished with a COMMAND MODE selector: set this selector to the same position as the VTR 1/2/3 MDP selector on the TV Remote Commander.

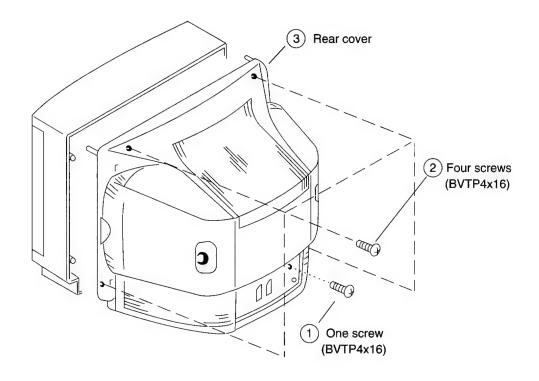
If the equipment does not have a certain function, the corresponding button on the Remote Commander will not operate.



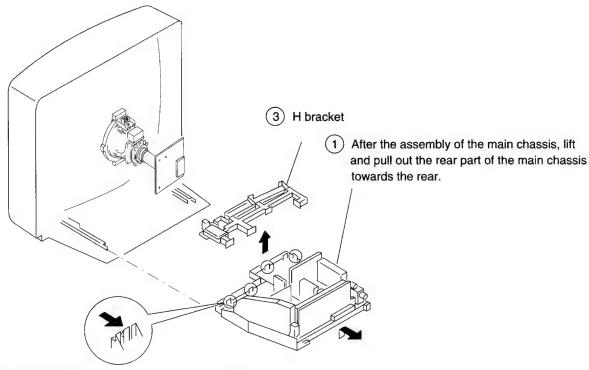
When recording
When you use the ●
(record) button, make
sure to press this button
and the one to the right
of it simultaneously.

SECTION 2 DISASSEMBLY

2-1. REAR COVER REMOVAL

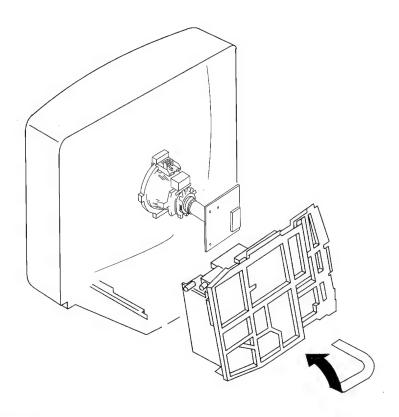


2-2. CHASSIS ASSY REMOVAL

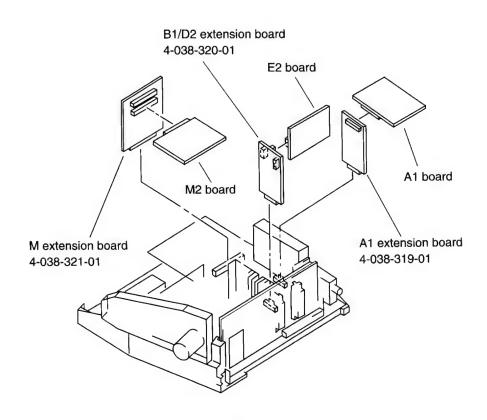


2 Push the four claws of the main chassis in the direction of the arrow and remove the H bracket upwards.

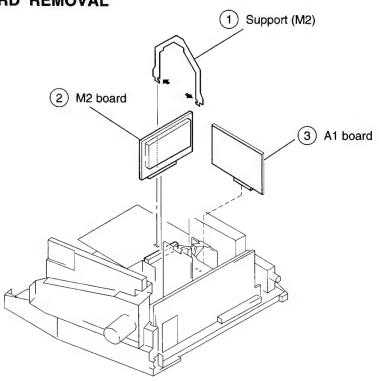
2-3. SERVICE POSITION



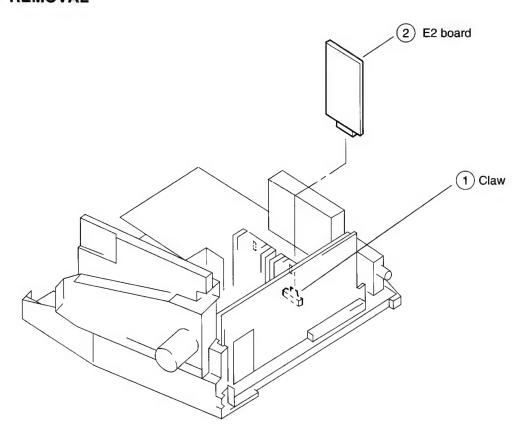
2-4. EXTENSION BOARDS



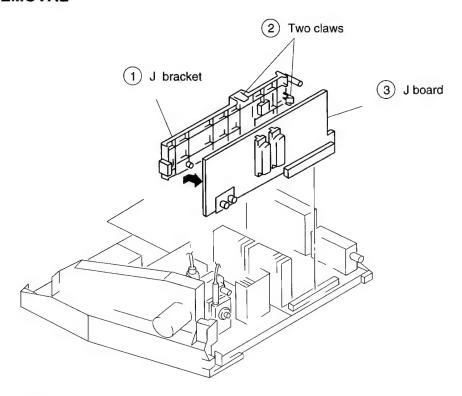
2-5. M2 AND A1 BOARD REMOVAL



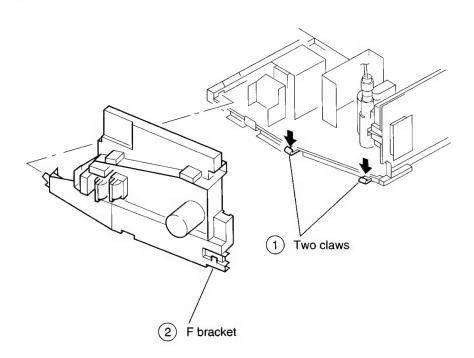
2-6. E2 BOARD REMOVAL



2-7. J BOARD REMOVAL

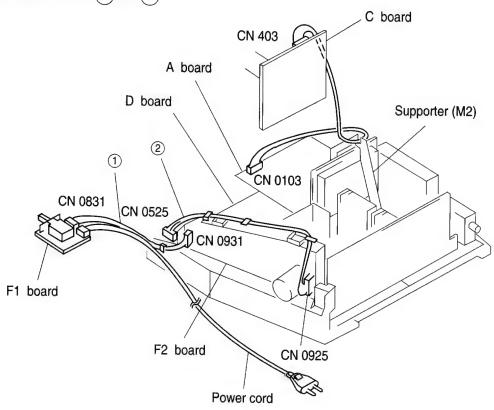


2-8. F BRACKET REMOVAL

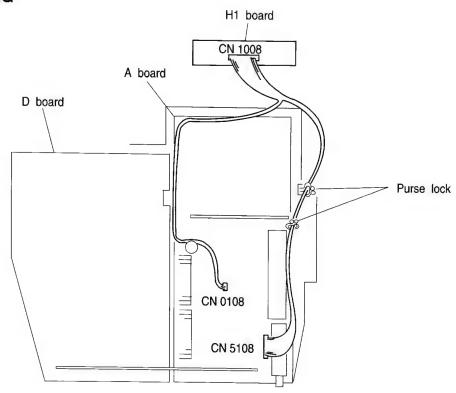


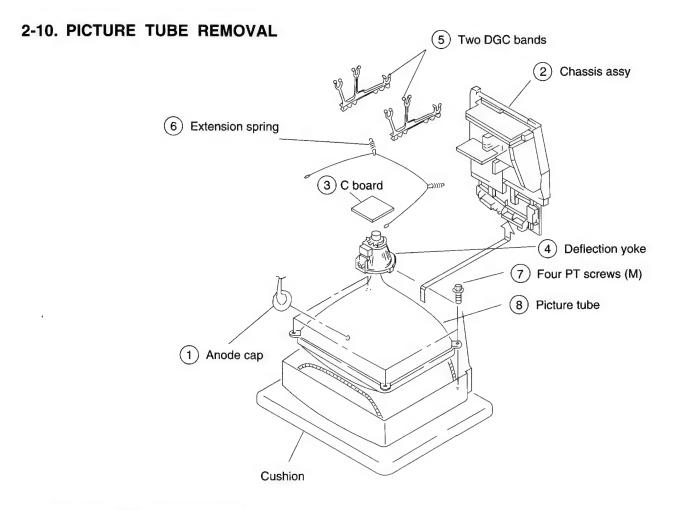
2-9-1. WIRE DRESSING

* Keep distance between (1) and (2)



2-9-2. WIRE DRESSING

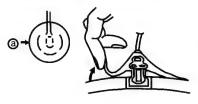




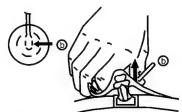
REMOVAL OF ANODE-CAP

Note: Short circuit the anode of the picture tube and the anode cap to the metal chassis, CRT shield or carbon paint on the CRT, after removing the anode.

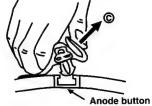
* REMOVING PROCEDURES.



1 Turn up one side of the rubber cap in the direction indicated by the arrow a



2 Using a thumb pull up the rubber cap firmly in the direction indicated by the arrow **(b)**



When one side of the rubber cap is separated from the anode button, the anode-cap can be removed by turning up the rubber cap and pulling it up in the direction of the arrow ©

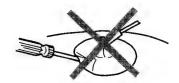
HOW TO HANDLE AN ANODE-CAP

- ① Don't damage the surface of anode-cap with sharp shaped material!
- 2 Don't press the rubber hardly not to hurt inside of anode-caps!

A metal fitting called as shatter-hook terminal is built into the rubber.

3 Don't turn the foot of rubber over hardly!
The shatter-hook terminal will stick out or damage the rubber.





SECTION 3 SET-UP ADJUSTMENTS

- The following adjustments should be made when a complete realignment is required or a new picture tube is installed.
- These adjustments should be performed with rated power supply voltage unless otherwise noted. The controls and switch below should be set as follows unless otherwise noted:
 - ◆ CONTRASTcontrol 80%(or Normal by commander)

BRIGHTNESS control 50%

Perform the adjustments in order as follows:

Preparation:

- Set the side of the unit with the PICTUE TUBE so that it faces east or west in order to reduce the influence of external magnetic force.
- Turn the power switch for the unit ON and erase the magnetic force using a degausser..

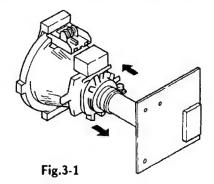
3-1. BEAM LANDING

Demagnetize with a degausser

- 1. Input a raster signal with the pattern generator.

 CONTRAST
 BRIGHTNESS
 one and pattern generator.
- 2. Turn the raster signal of the pattern generator to red.
- 3. Move the deflection yoke backward, and adjust with the purity control so that red is in the center and blue and green are at the sides evenly.

 (Fig.3-1 3-3)
- 4. Move the deflection yoke forward, and adjust so that the entire screen becomes red. (Fig.3-1)
- 5. Switch over the raster signal to blue and blue and confirm the condition.
- 6. When the position of the deflection yoke is determined, tighten it with a deflection yoke mounting screw.
- 7. When landing at the corner is not right, adjust by using the disk magnets. (Fig.3-4)



1. Beam Landing

- 2. Convergence
- 3. Focus
- 4. Screen (G 2) and White Balance

Note: Test Equipment Required.

- 1. Color bar/Pattern Generator
- 2. Degausser
- 3. DC Power Supply
- 4. Digital multimeter
- 5. Oscilloscope

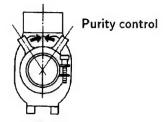


Fig.3-2

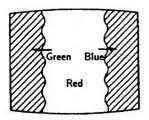
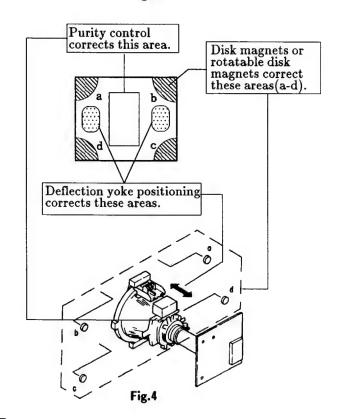


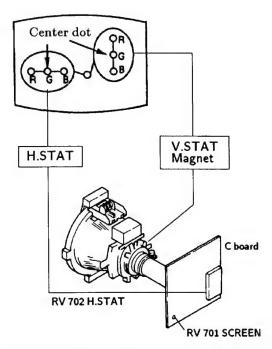
Fig.3-3



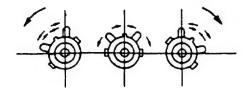
3-2. CONVERGENCE

Preparation:

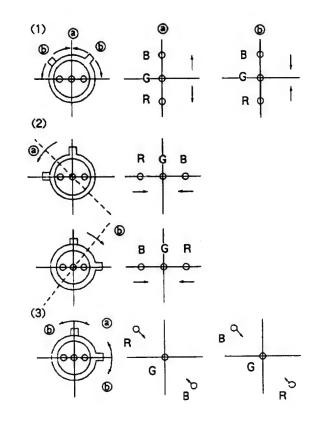
- Before starting, perform FOCUS, H.SIZE, and V. SIZE adjustments.
- Set BRIGHTNESS control to minimum.
- Feed in the dot pattern.
- (1) Horizontal and Vertical Static Convergence



- 1. Adjust H.STAT VR to converge red, green and blue dots the in center of the screen. (Horizontal movement)
- 2. Adjust V. STAT magnet to converge red, green and blue dots in the center of the screen. (Vertical movement)
- 3. If the red, green and blue dots do not converge on the center of screen with H.STAT VR, perform horizontal convergence adjustment using H.STAT VR and V.STAT magnet as shown below. (In this case, H.STAT VR and V.STAT magnet effect each other.)
- Tilt the V.STAT magnet and adjust static convergence to open or close the V.STAT magnet.



4. When the V.STAT magnet is moved in the direction of arrow (a) and (b), red, green and blue dots move as shown below.

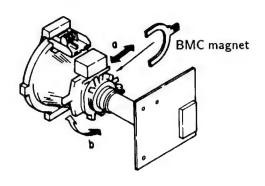


If the red and blue dot do not converge with green dots, perform following steps.

Move BMC magnet (a) to correct insufficient H.static convergence.

Rotate BMC magnet (b) to correct insufficient V.static convergence.

In either case, repeat Beam Landing Adjustment.

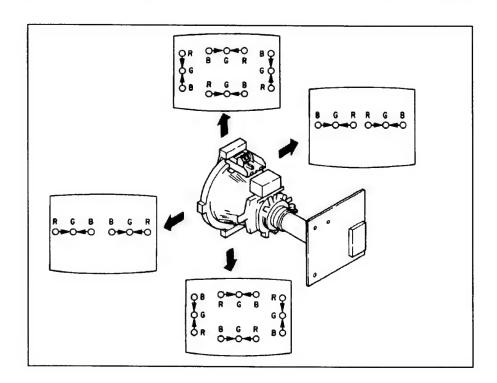


(2) Dynamic Convergence Adjustment

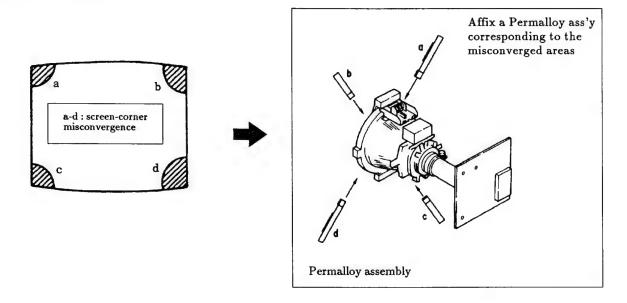
Preparation:

- Before starting perform Horizontal and Vertical static convergence Adjustment.
- 1. Slightly loosen deflection yoke screw.
- 2. Remove deflection yoke spacers.

- 3. Move the deflection yoke for best convergenceas shown below.
- 4. Tighten the deflection yoke screw.
- 5. Install the deflection yoke spacers.

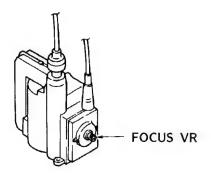


(3) Screen-corner Convergence



3-3. FOCUS

Adjust FOCUS so that the whole screen is in best focus.



3-4. WHITE BALANCE

Screen G2 Setting

- 1. Input the dot signal from the pattern generator.
- 2. Set the picture brightness control to its lowest level.
- 3. Apply 180V DC to the R,G, and B cathodes with an external power supply.
- While watching the picture, adjust G 2 control RV 701 (Screen) to the point just before the return lines disappear.

White balance adjustment

- 1. Receive all-white signal.
- Enter into service mode. (Refer to the section 4
 "Electrical Adjustment" to how to enter service
 mode.)
- 3. Select CXA 1587 on menu.

| 09 | SUB BRIGHT | ADJ. |
|----|------------------|------|
| 10 | SUB HUE | 7 |
| 11 | VM LEVEL | 2 |
| 12 | NR LEVEL | 0 |
| 13 | ABL MODE | 0 |
| 14 | G-DRIVE | ADJ. |
| 15 | B-DRIVE | ADJ. |
| 16 | G-AUTO CUT OFF | ADJ. |
| 17 | B-AUTO CUT OFF | ADJ. |
| 18 | R-MANUAL CUT OFF | ADJ. |
| 19 | G-MANUAL CUT OFF | ADJ. |
| 20 | B-MANUAL CUT OFF | ADJ. |

- 4. Set picture to MAX.
- 5. Adjust G-DRIVE B-DRIVE with 🗓, 💆 buttons so that the white balance becomes optimum.
- 6. Press OK button to write the data for each item.
- 7. Set picture to MIN.
- 8. Adjust G-AUTO CUT OFF, B-AUTO CUT OFF, R
 -MANUAL CUT OFF, G-MANUAL CUT OFF and
 B-MANUAL CUT OFF with buttons so
 that the white balance becomes optimum.
- 9. Press OK button to write the data for each item.

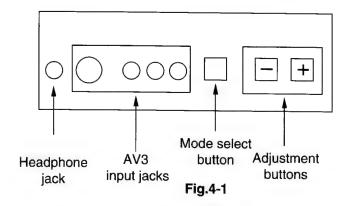
SECTION 4 CIRCUIT ADJUSTMENTS

4-1. ELECTRICAL ADJUSTMENTS

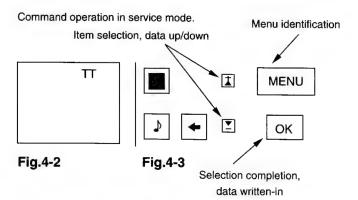
Service adjustment to this model can be performed with the supplied remote commander RM-831

HOW TO ENTER INTO SERVICE MODE

1. Turn on the main power switch of the set while pressing any two buttons on the front panel.



2. "TT" will appear at the upper right corner of the screen.



3. Press the MENU button on the remote commander to obtain the menu on the screen.

| MAIN MENU |
|-------------------------|
| Programme Table |
| Video Connection |
| Picture Control |
| Sound Control |
| Timer |
| Preset |
| Language |
| > DEMO |
| Select < > and press OK |

Fig.4-4

- 4. Press the ▲ and ▼ buttons on the remote commander and move > to DEMO.
- 5. Press OK button to proceed to the next menu.
- 6. The menu of fig. 4-5 will appear on the screen. Select the DEVICE corresponding to the adjustment item from the table on the next page.

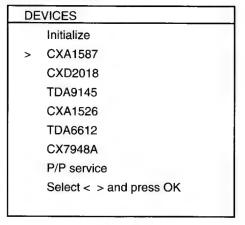


Fig. 4-5

7. If adjustment item is CXA1587, press the button and move > to CXA1587.

▼

CXA1587

| Item No | Adjustment item | Data Amount |
|---------|-----------------|-------------|
| | PICTURE | |
| 01 | | 53 |
| 02 | COLOR | 31 |
| 03 | BRIGHT | 31 |
| 04 | HUE | 31 |
| 05 | SHARPNESS | 12 |
| 06 | RGB PICTURE | 7 |
| 07 | SUB CONTRAST | ADJ. |
| 08 | SUB COLOR | ADJ. |
| 09 | SUB BRIGHT | ADJ. |
| 10 | SUB HUE | 8 |
| 11 | VM LEVEL | 2 |
| 12 | NR LEVEL | 0 |
| 13 | ABL MODE | 0 |
| 14 | G-DRIVE | ADJ. |
| 15 | B-DRIVE | ADJ. |
| | | |

- 8. Press OK button to get the next selection menu.
- 9. Press <u>■</u> button and move > to the adjustment item and press <u>OK</u> button.
- 10. Press ★ and ▼ buttons to change the data in order to comply with each standard.
- 11. Press OK button to write data.
- 12. Turn off the power to quit service mode when adjustments are completed.

| Item No | Adjustment item. | Data Amount |
|---------|-------------------|-------------|
| 01 | PICTURE | 53 |
| 02 | COLOR | 31 |
| 03 | BRIGHT | 31 |
| 04 | HUE | 31 |
| 05 | SHARPNESS | 12 |
| 06 | RGB PICTURE | 7 |
| 07 | SUB CONTRAST | ADJ. |
| 08 | SUB COLOR | ADJ. |
| 09 | SUB BRIGHT | ADJ. |
| 10 | SUB HUE | 8 |
| 11 | VM LEVEL | 2 |
| 12 | NR LEVEL | 0 |
| 13 | ABL MODE | 0 |
| 14 | G-DRIVE | ADJ. |
| 15 | B-DRIVE | ADJ. |
| 16 | G-AUTO CUT OFF | ADJ. |
| 17 | B-AUTO CUT OFF | ADJ. |
| | R-MANUAL CUT OFF | |
| 18 | G-MANUAL CUT OFF | ADJ. |
| 19 | | |
| 20 | B-MANUAL CUT OFF | ADJ. |
| 21 | GAMMA LEVEL | 8 |
| 22 | DC TRANSFER RATIO | 3 |
| 23 | DYNAMIC PICTURE | 2 |
| 24 | Y FILTER ADJ | ADJ. |
| 25 | Y DELAY TIME | 15 |
| 26 | Y DELAY SWITCH 1 | 0 |
| 27 | Y DELAY SWITCH 2 | 1 |
| 28 | SHARPNESS LIMIT | ON |
| 29 | TRAP | OFF |
| 30 | H SHIFT | 36 |
| 31 | DA TEST | ON |
| 32 | PRE/OVER | 12 |
| 33 | SUB FOCUS | 2 |
| 34 | SUB SHARPNESS | 3 |
| 35 | R MUTE | OFF |
| 36 | G MUTE | OFF |
| 37 | B MUTE | OFF |
| 38 | AGING 1 WHT | OFF |
| 39 | AGING 2 BLK | ON |
| 40 | AKB OFF | ON |
| 41 | INHIBIT RGB | ON |
| 42 | FORCED RGB | OFF |
| 43 | V/2 V | OFF |
| 44 | AXIS | PAL |
| 45 | HUE OFF | OFF |
| 46 | V EXTENSION | OFF |
| 47 | AFC 1 | 1 |
| 48 | AFC 2 | 0 |
| 49 | AFC 2 | OFF |
| | | |
| 50 | REF. POSITION | 0 |

| Item No | Adjustment item. | Data Amount |
|---------|------------------|-------------|
| 01 | V SIZE | ADJ. |
| 02 | V SHIFT | ADJ. |
| 03 | S CORRECTION | ADJ. |
| 04 | V LINEARITY | ADJ. |
| 05 | H SIZE | ADJ. |
| 06 | PIN AMP | ADJ. |
| 07 | TILT | ADJ. |
| 08 | UPPER CORNER | ADJ. |
| 09 | LOWER CORNER | ADJ. |
| 10 | V BOW | ADJ. |
| 11 | ANGLE | ADJ. |
| 12 | HV COMP. V | 12 |
| 13 | HV COMP. H | 8 |
| 14 | FRAME SHIFT | OFF |
| 15 | FREE RUN 60 Hz | OFF |
| 16 | SYSTEM 60 Hz | OFF |
| 17 | ASPECT WIDE | OFF |
| 18 | DOUBLE SCAN | OFF |
| 19 | INTERLACE | ON |
| 20 | H SHIFT | 26 |
| 21 | N/S CORRECTION | ADJ. |

Typical On Screen Display based values when receiving PAL Phillips pattern.

| TDA6612 | ADJ |
|-------------------|------|
| Stereo-Separation | (31) |

Should be adjusted twice, once for 4:3 and once for 16:9 mode.

Y FILTER ADJUSTMENT

- 1. Input a PAL RED pattern.
- 2. Connect an oscilloscope to pin ① of CN0403 (R OUT) on C board.
- 3. Enter into service mode and press 3,8.
- 4. Adjust data by \triangle or ∇ to minimize the chroma element at CN0403 pin $\widehat{(1)}$.

SUB BRIGHTNESS ADJUSTMENT

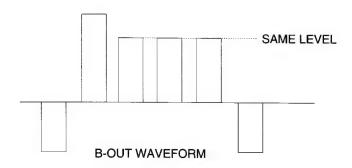
- 1. Input a Phillips pattern.
- 2. Enter into service mode and press 23.
- 3. Adjust data so that 0-IRE of grey scale and CUT-OFF 20-IRE are only slightly visible on screen.

SUB CONTRAST ADJUSTMENT

- 1. Input a video that contains a small 100% area on a Black Background.
- 2. Enter into service mode and press 01 to have PIC max followed by 21.
- 3. Connect oscilloscope to pin ① of CN0403 (R OUT) and adjust data to obtain 2.5Vp-p.

SUB COLOR ADJUSTMENT

- 1. Input a PAL color bar signal.
- 2. Connect an oscilloscope to pin (3) of CN0403 (B OUT) on the C board.
- 3. Enter into service mode and press 22 of CXA1587, 8 SUB COLOR.
- 4. Adjust data so that the right sides of the waveform are set to the same level.



STEREO-SEPARATION ADJUSTMENT

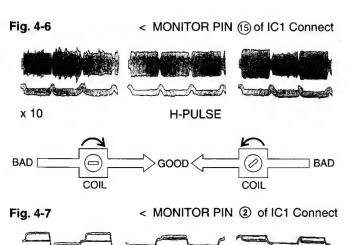
- 1. Input a 1kHz stereo signal to the L-ch and a 400Hz stereo signal to the R-ch.
- 2. Enter into service mode and press 19.
- 3. Adjust data so that sound is not detected in the Right-ch and the Left-ch.

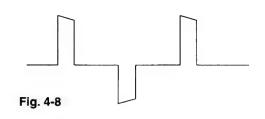
DRIVE AND CUT-OFF

See direct test mode list attached and refer to sub brightness or such for adjustment method.

BELL FILTER ADJUSTMENT L3, L2

- 1. Input a Phillips signal.
- 2. Connect an oscilloscope to pin (5) of IC1 on the E2 board.
- 3. Adjust L3 (Bell Filter) to obtain a flat chroma/smooth signal see (Fig 4-6).
- 4. Connect an oscilloscope to pin ② of IC1 on the E2 board.
- 5. Adjust L2 (B-Y) to obtain symmetrical transient between $(R-Y) \rightarrow (B-Y)$ and $(B-Y) \rightarrow (R-Y)$ see (Fig 4-7).
- 6. Connect oscilloscope to pin (5) of CN2.
- 7. Confirm ID flip-flop output signal is as indicated in (Fig 4-8).





H-PULSE

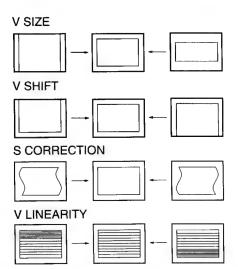
x 10

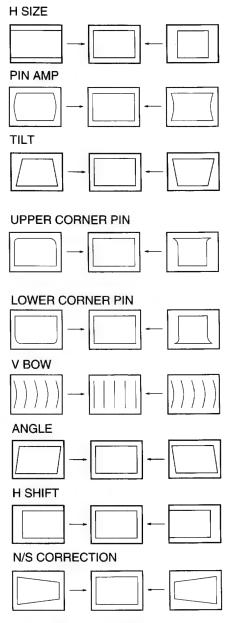
DEFLECTION SYSTEM ADJUSTMENT

- 1. Enter into service mode and select CXD2018.
- 2. Select and adjust each item in order to obtain the optimum image.

CXD2018

| Item No | Adjustment item. | Data Amount |
|---------|------------------|-------------|
| 01 | V SIZE | ADJ. |
| 02 | V SHIFT | ADJ. |
| 03 | S CORRECTION | ADJ. |
| 04 | V LINEARITY | ADJ. |
| 05 | H SIZE | ADJ. |
| 06 | PIN AMP | ADJ. |
| 07 | TILT | ADJ. |
| 08 | UPPER CORNER | ADJ. |
| 09 | LOWER CORNER | ADJ. |
| 10 | V BOW | ADJ. |
| 11 | ANGLE | ADJ. |
| 12 | HV COMP. V | 12 |
| 13 | HV COMP. H | 8 |
| 14 | FRAME SHIFT | OFF |
| 15 | FREE RUN 60 Hz | OFF |
| 16 | SYSTEM 60 Hz | OFF |
| 17 | ASPECT WIDE | OFF |
| 18 | DOUBLE SCAN | OFF |
| 19 | NON INTERLACE | ON |
| 20 | H SHIFT | 26 |
| 21 | N/S CORRECTION | ADJ. |





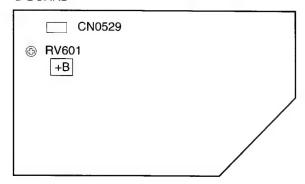
3. Press OK button to write data.

If the menu display prevents accurate adjustment, press to clear, to resume, press once again.

4-2. VOLUME ELECTRICAL ADJUSTMENTS

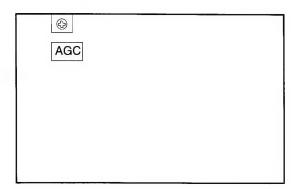
+B (+135V) ADJUSTMENT (RV601)

D BOARD



- 1. Switch on the power to the TV set.
- 2. Connect a digital multi-meter to pin ① of CN0529 on D board.
- 3. Adjust RV601 on D board to $+135V \pm 0.5V$.

AGC ADJUSTMENT (IF BLOCK)



- 1. Receive an off-air signal.
- 2. Adjust the AGC VR so that there is no snow noise or cross-modulation visible on the screen.
- 3. Change the receiving channel and confirm status.

4-3. TEST MODE 2:

Is available by pressing Test button twice, OSD 'TT' appears. The functions described below are available by pressing the two numbers. To release the Test Mode 2, press 0 twice, or switch the TV into Stand-by Mode.

| 00 | switch Test Mode 2 off |
|-------|---|
| 01 | picture maximum |
| 02 | picture minimum |
| 03 | Volume 35% |
| 04 | Volume 50% |
| 05 | Volume 65% |
| 06 | Volume 80% |
| 07 | Ageing Condition (Volume min., Picture max., Brightness max., Ageing 2 Mode of CXA1587, TDA2595 is locked to CXA1587 via PIN 34 of μ-Con.) |
| 08 | Shipping Condition (Analog Values are RESET due to factory setting, Prog 1 is selected, TT Mode is switched off) |
| 09 | dummy |
| 10 | Tenth entry is deleted |
| 11 | Balance |
| 12 | Hue |
| 13 | Display of Software Version and TV set configeration |
| 14 | Adjustment of N/S Correction |
| 15 | Read factory setting from NVM Reads Volume, Balance, Treble, Bass, Brightness, Contrast, Hue, Sharpness, Colour values from ROM to the actual used values (Last Power Memory) |
| 16 | Save actual used values as RESET values Memorize actual used values Balance, Treble, Bass, Hue, Sharpness at RESET position in NVM. |
| 17 | Preset Level for AV Sources |
| 18 | dummy |
| 19 | Stereo Seperation |
| 20 | Tenth entry is deleted |
| 21 | Sub Contrast |
| 22 | Sub Colour |
| 23 | Sub Brightness |
| 24-29 | dummy |
| | |

| 30 | Tenth entry is deleted |
|-------|--|
| 31 | Green Drive |
| 32 | Blue Drive |
| 33 | Green Cut Off (Auto Cut Off) |
| 34 | Blue Cut Off (Auto Cut Off) |
| 35 | Red Cut Off (Manual Cut Off) (Auto Cut Off is switched off) |
| 36 | Green Cut Off (Manual Cut Off) (Auto Cut Off is switched off) |
| 37 | Blue Cut Off (Manual Cut Off) (Auto Cut Off is switched off) |
| 38 | Y-Filter adjustment (Trap is switched off and TDA9145 is switched in forced NTSC Mode) |
| 39 | dummy |
| 40 | Tenth entry is deleted |
| 41 | Default setting of CXA1587 (Only available in Prog 99) |
| 42 | Default setting of CXA2018 (Only available in Prog 99) |
| 43 | Default setting of CXA1526 (Only available in Prog 99) |
| 44 | (all Port High) Not yet |
| 45 | (all Port High) Not yet |
| 46 | IR Channel Pressetting Mode The channel pressetting can be done by a Special IR Transmitter |
| 47-48 | , |
| 49 | Erase the NVM Testbyte (this byte detects already stored NVM's) After selecting this function, switch TV Off and On -> the NVM will be preset by μ -Controller. (Not the channel data) |

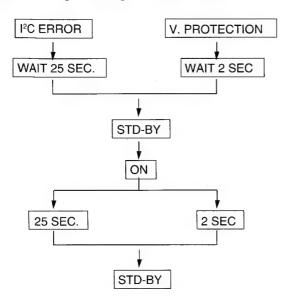
Note: For No 35, 36, 37 and 38 special pressing (AKB, forced Color Mode, Trap) is selected. After selecting a new Test Mode Number, the AKB is switched ON, the Trap is switched ON and TDA9145 is switched to Auto Search Mode.

In Test Mode 2 the Menu display is switchable by the Speaker-Off button.

4-4. ERROR MESSAGE

Self diagnostic system operates as follows.

 When the microprocessor is unable to receive an acknowledgement back from the device, the LED starts flashing according to the table below.



In the case of more than one error in parallel, the blinking error shows max priority according to the error number (e.g. error 2 and error 5 appear together, then LED,s show error 2).

ERROR TABLE

| IC TYPE | FUNCTION |
|----------|---|
| II C BUS | SDA low |
| X24C16 | EPROM |
| | |
| TDA9145 | Colour decoder |
| CXA1587 | RGB/Jungle |
| TDA6612 | Sound processor |
| CXD2018 | V deflection |
| CXA1545 | AV switch |
| SDA5248 | Text |
| | V protection |
| | TDA9145 CXA1587 TDA6612 CXD2018 CXA1545 |

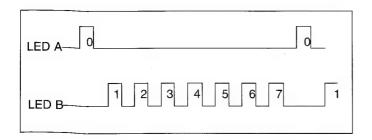
Stand By LED blinking

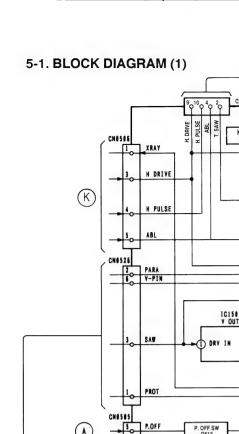
No 1K return

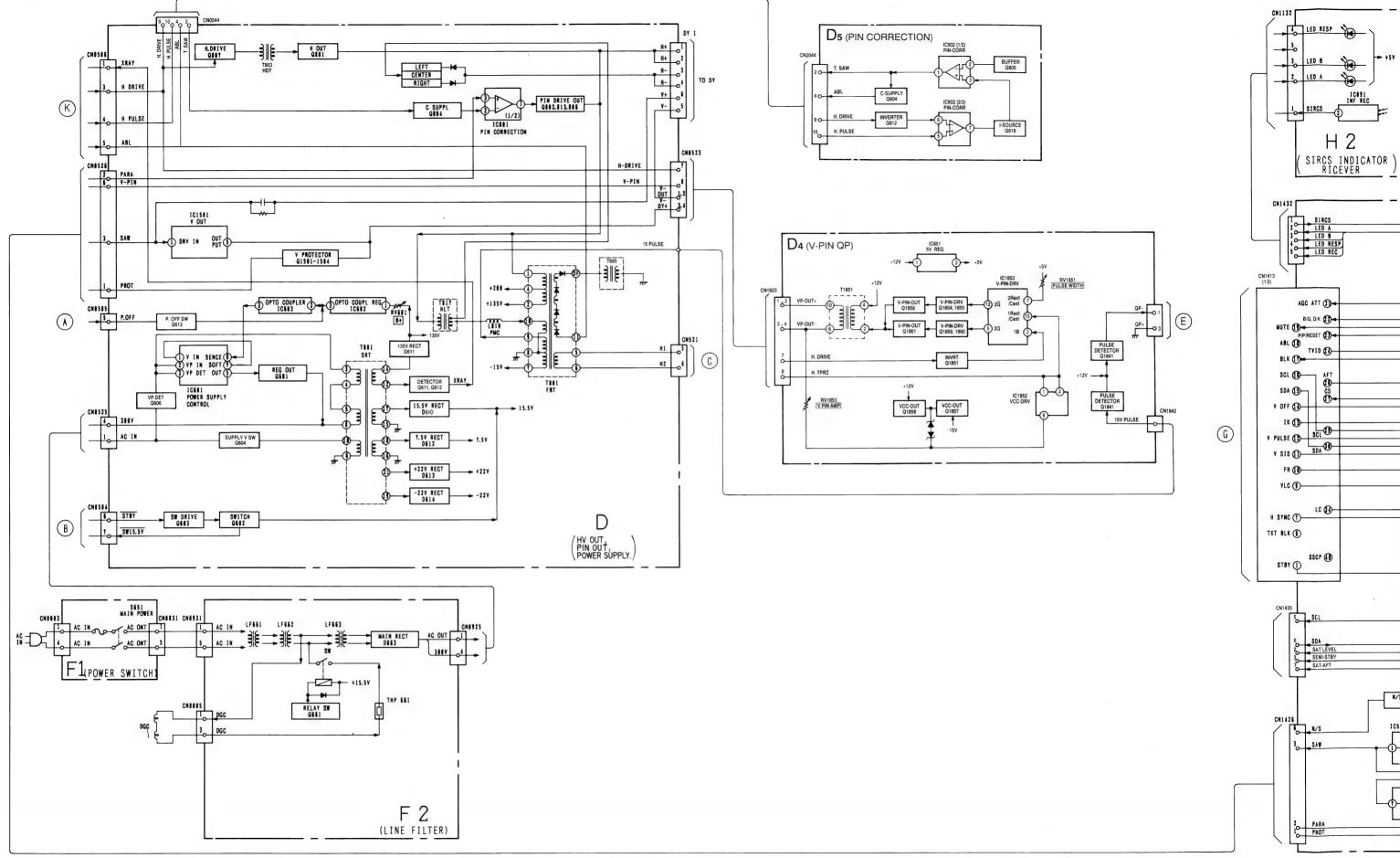
4-5. ERROR I²C BUS DIAGNOSTIC SYSTEM FOR AE2-B CHASSIS.

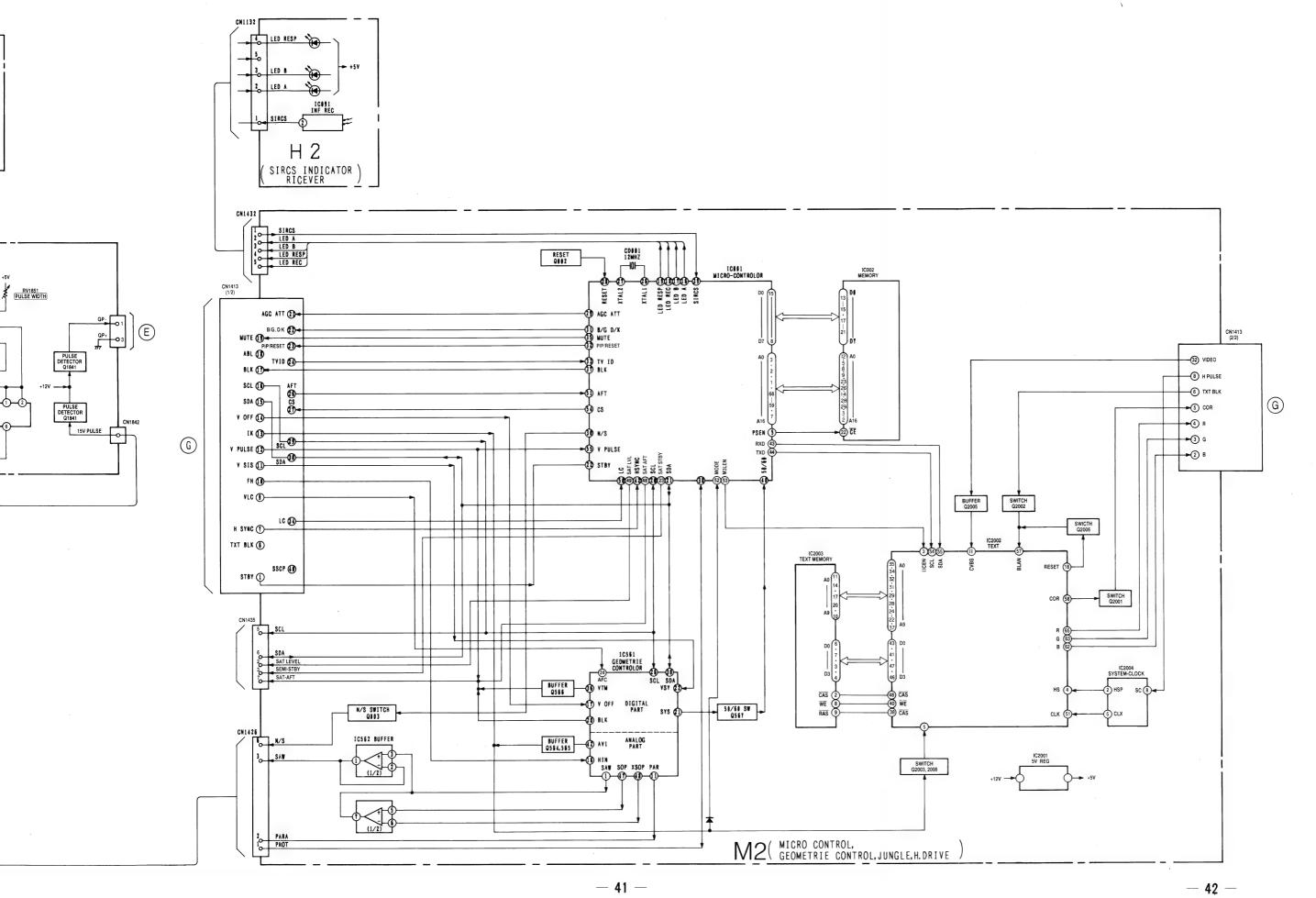
For all IC's used in the AE 2-B chassis which are necessary to obtain picture and sound there is an inbuilt I²C Bus diagnostic system.

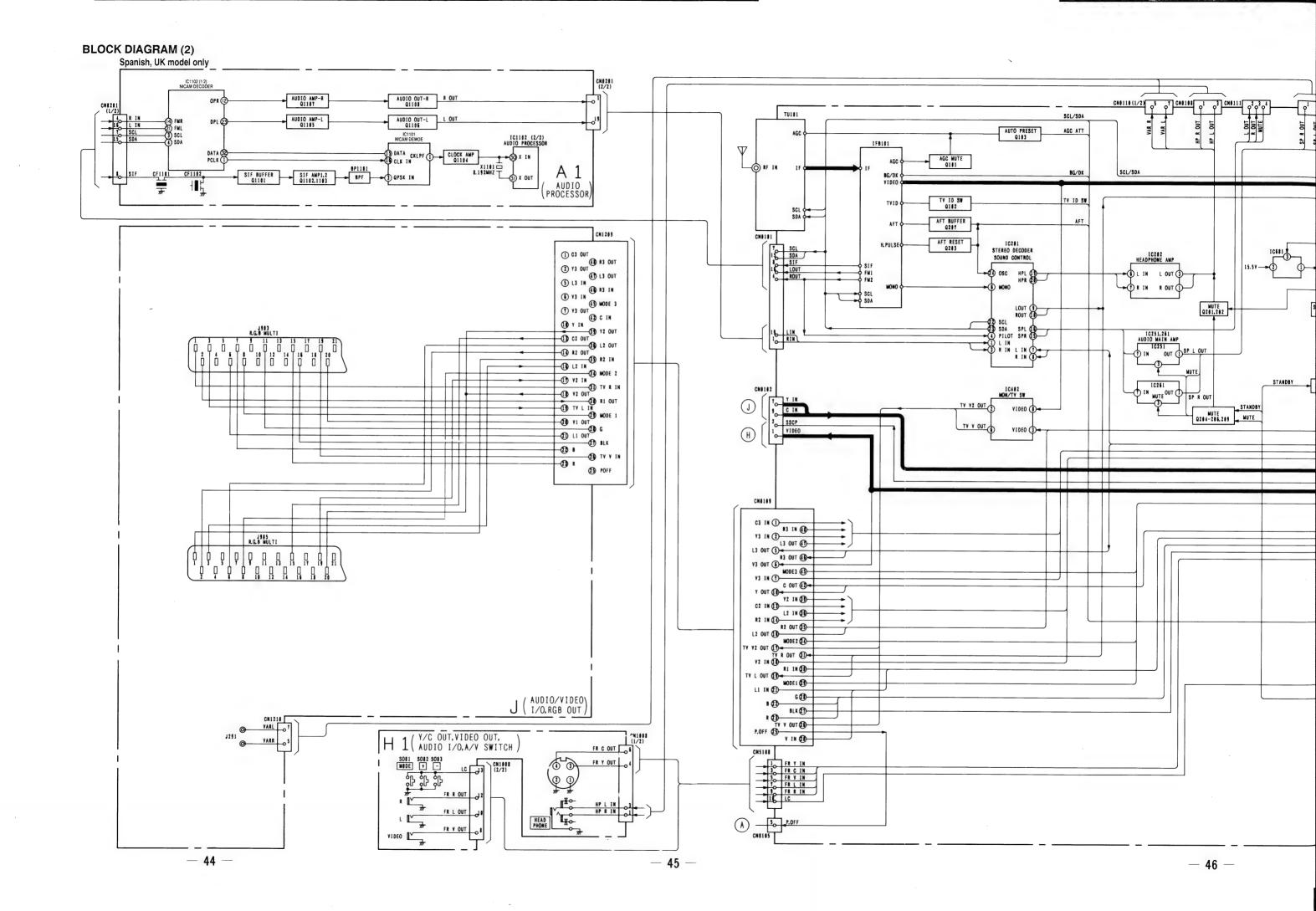
In the case of no acknowledge bit, LED A and LED B start blinking as shown.

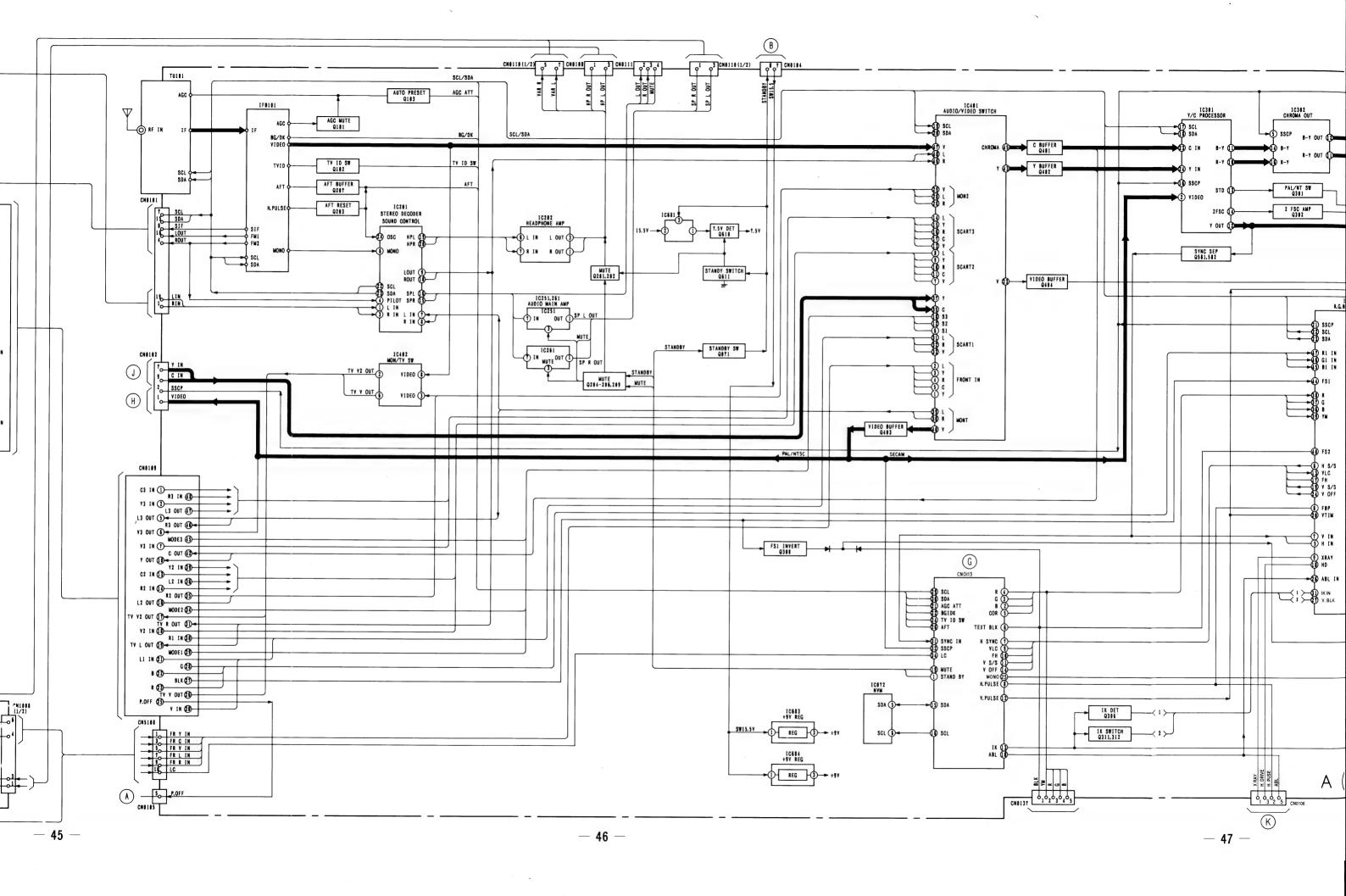


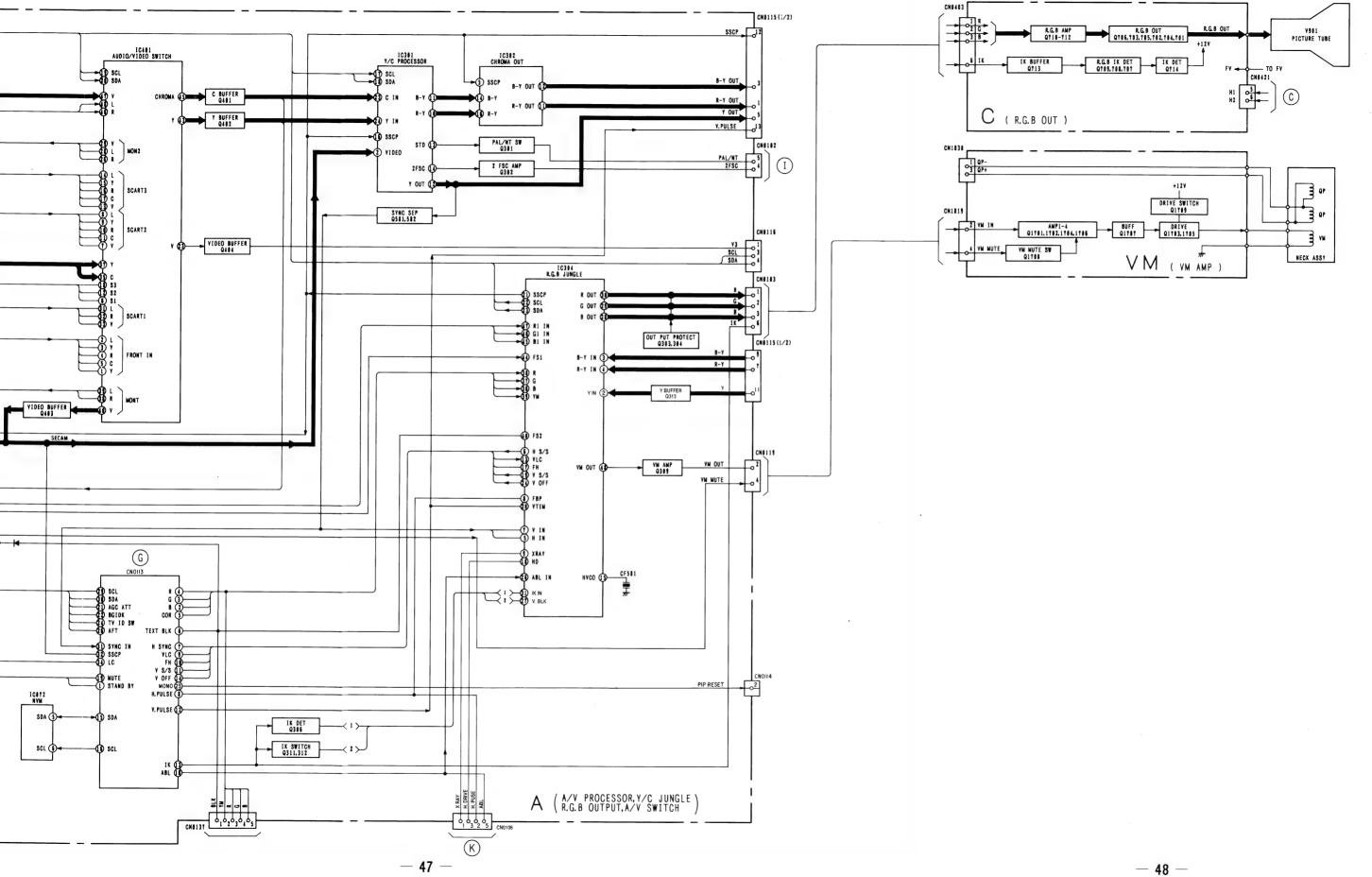




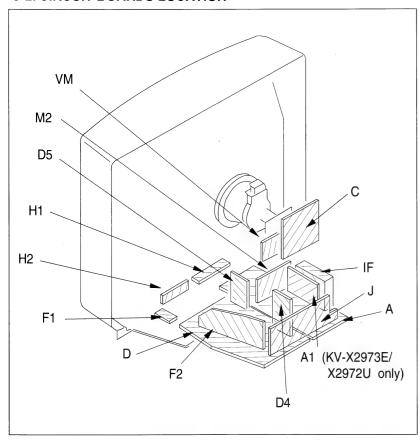








5-2. CIRCUIT BOARDS LOCATION



5-3. SCHEMATIC DIAGRAMS AND PRINTED WIRING BOARDS

Note:

- All capacitors are in μ F unless otherwise noted. pF: μ μ F 50WV or less are not indicated except for electrolytic.
- Indication of resistance, which dose not have one for rating electrical power, is as follows.

Rating electrical power: 1/4W

• Chip resistor is in 1/10W.

Pitch : 5mm

- All resistors are in ohms. $k\; \Omega = 1000\; \Omega,\; M\; \Omega = 1000K\; \Omega$
- monflammable resistor.
- tusible resistor.
- Δ : internal component.
- _____: panel designation or adjustment for repair.
- All variable and adjustable resistors have charactristic curve B, unless otherwise noted.
- · All voltages are in V.
- Readings are taken with a 10M Ω digital multimeter.
- · Readings are taken with a color-bar signal input.
- Voltage variations may be noted due to normal production tolerances.
- : B + bus.
- = = : B bus.
- signal path.(RF)
- ___ : earth ground
- · : earth chassis

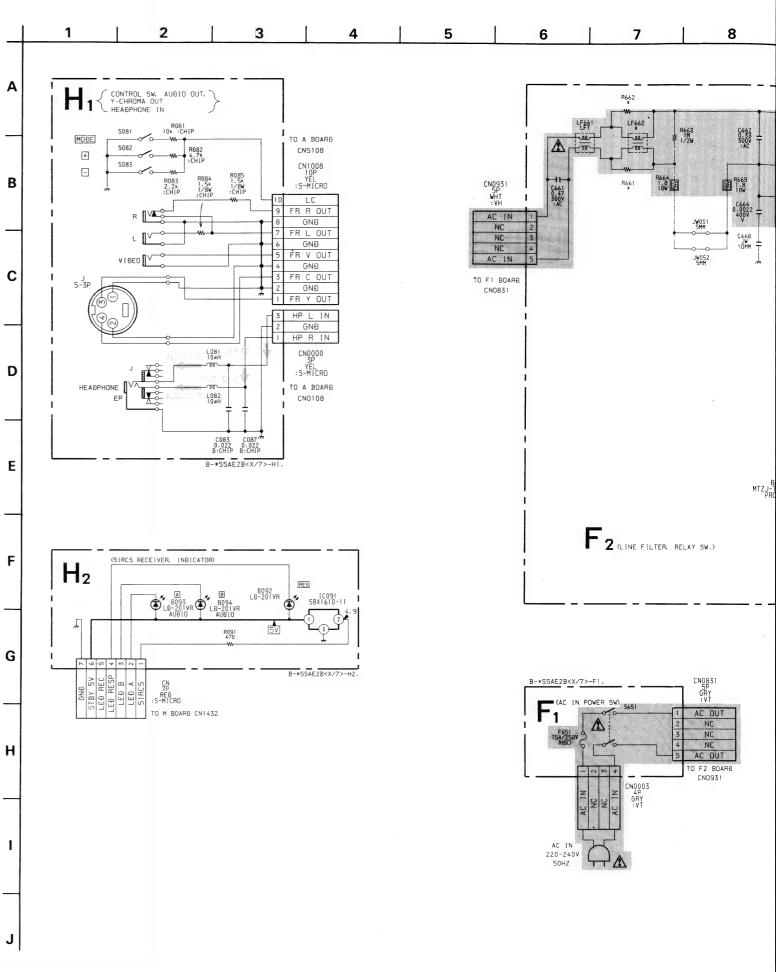
| Reference in | formation | |
|--------------|--|---|
| RESISTOR | RN RC FPRD FUSE RS RB RW | : METAL FILM : SOLID : NONFLAMMABLE CARBON : NONFLAMMABLE FUSIBLE : NONFLAMMABLE METAL OXIDE : NONFLAMMABLE CEMENT : NONFLAMMABLE WIREWOUND |
| | * | : ADJUSTMENT RESISTOR |
| COIL | LF-8L | : MICRO INDUCTOR |
| CAPACITOR | TA | : TANTALUM |
| | PS | : STYROL |
| | PP | : POLYPROPYLENE |
| | PT | : MYLAR |
| | MPS | : METALIZED POLYESTER |
| | MPP | : METALIZED POLYPROPYLENE |
| | ALB | : BIPOLAR |
| | ALT | : HIGH TEMPERATURE |

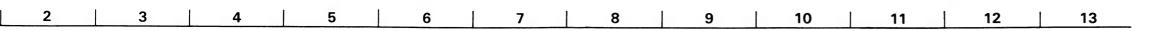
Note: The components identified by shading and mark

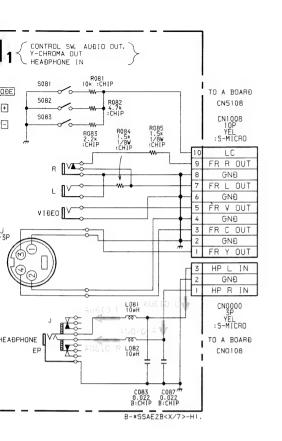
A are critical for safety. Replace only with part number specified.

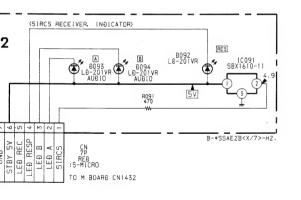
: HIGH RIPPLE

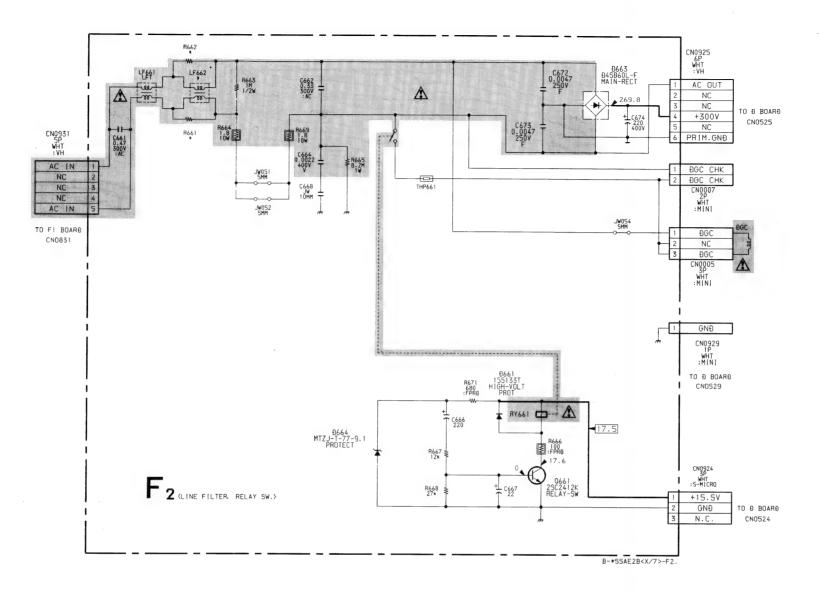
Note: Les composants identifiés par une trame et par une marque A sont d'une importance critique pour la sécurité. Ne les remplacer que par des pièces de numéro spécifié.

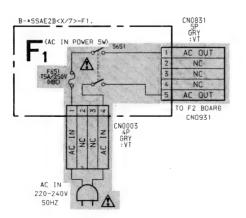






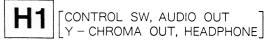






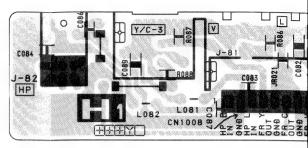
F2 BOARD * MARK

| Model | KV-X2971A | KV-X2971B | KV-X2971D | KV-X2971K | KV-X2973E | KV-X2972U |
|-------|-----------|-----------|-----------|-----------|-----------|-----------|
| R661 | - | JW 10MM | | - | JW 10MM | JW 10MM |
| R662 | - | JW 10MM | - | - | JW 10MM | JW 10MM |
| LF662 | LFT | - | LFT | LFT | - | |

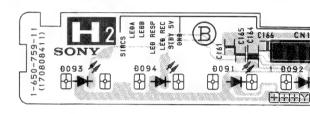


H

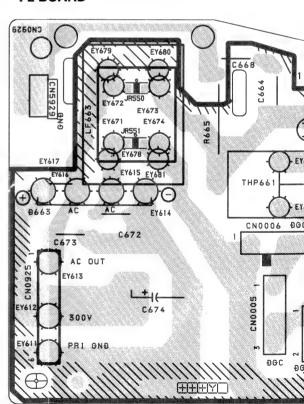
- H1 BOARD -

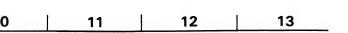


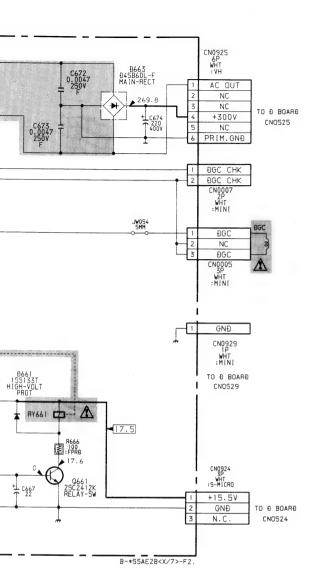
- H2 BOARD -



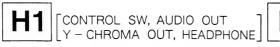
- F2 BOARD -







| KV-X2971B | KV-X2971D | KV-X2971K | KV-X2973E | KV-X2972U |
|-----------|-----------|-----------|-----------|-----------|
| JW 10MM | - | - | JW 10MM | JW 10MM |
| JW 10MM | - | - | JW 10MM | JW 10MM |
| - | LFT | LFT | - | - |
| | | | | |

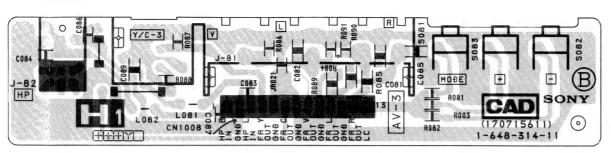




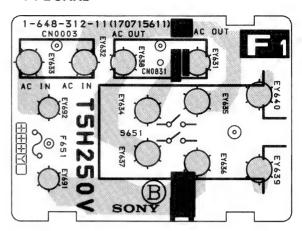


[AC IN POWER SW]

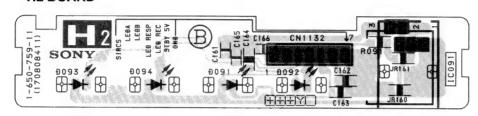
- H1 BOARD -



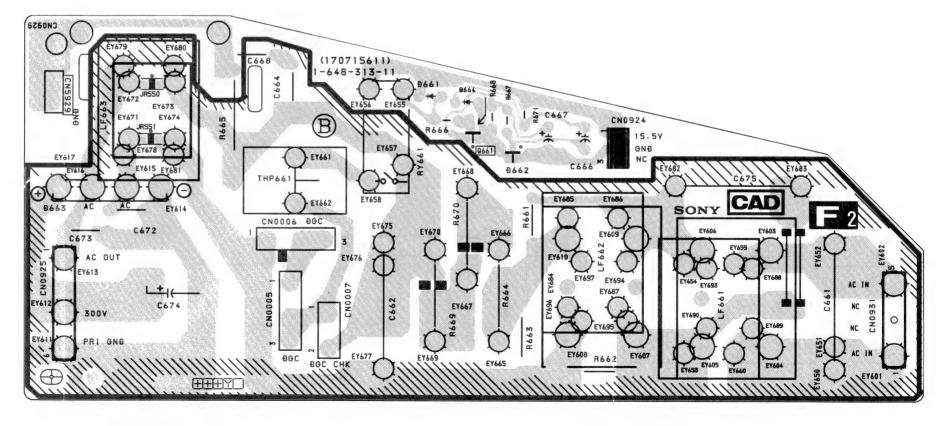
- F1 BOARD -

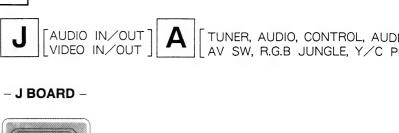


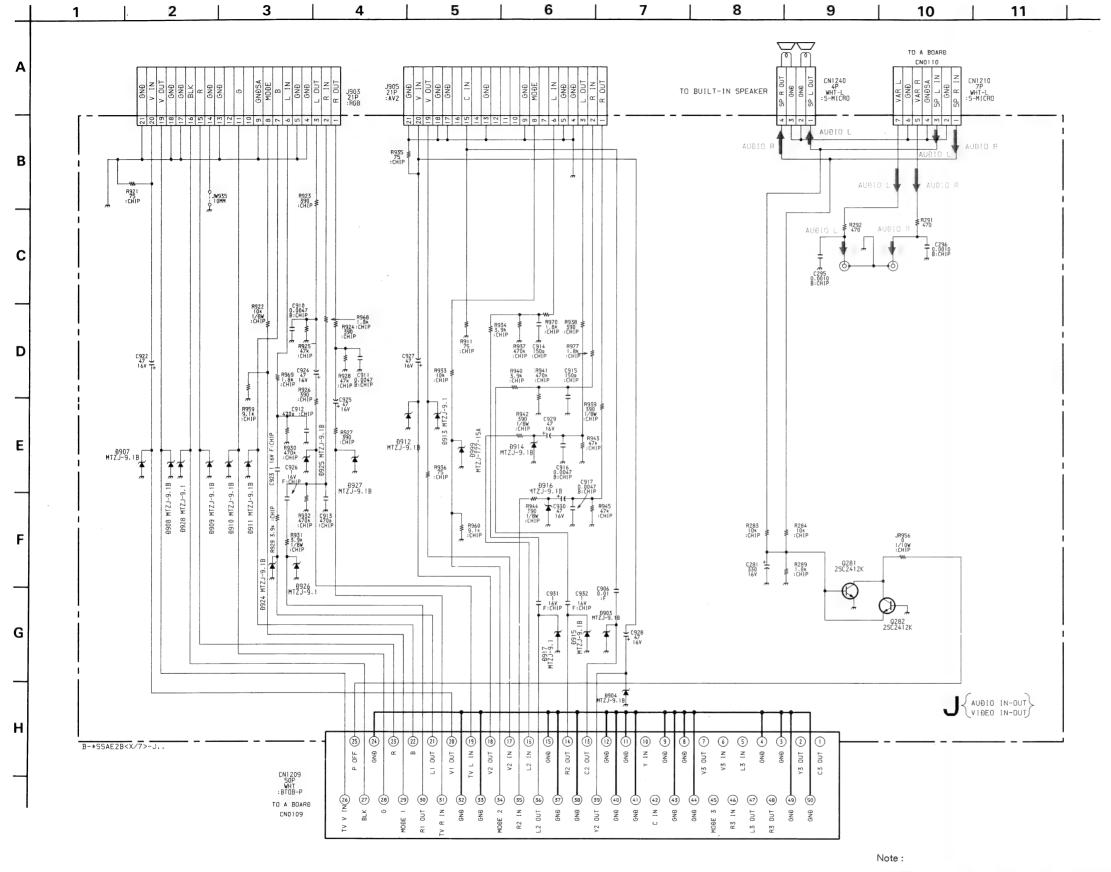
- H2 BOARD -

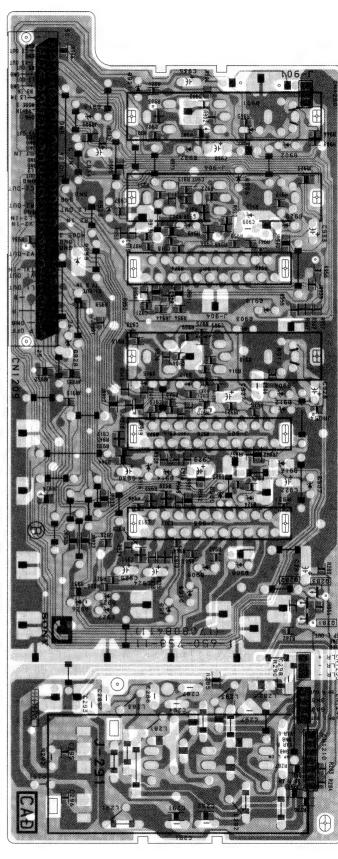


- F2 BOARD -



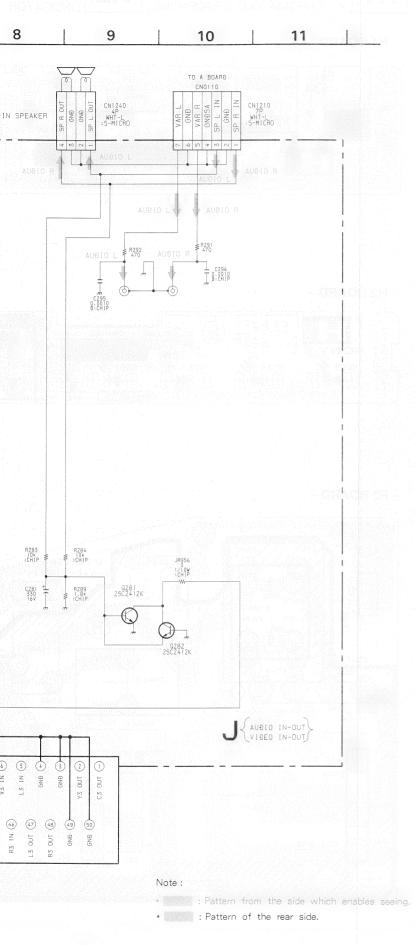


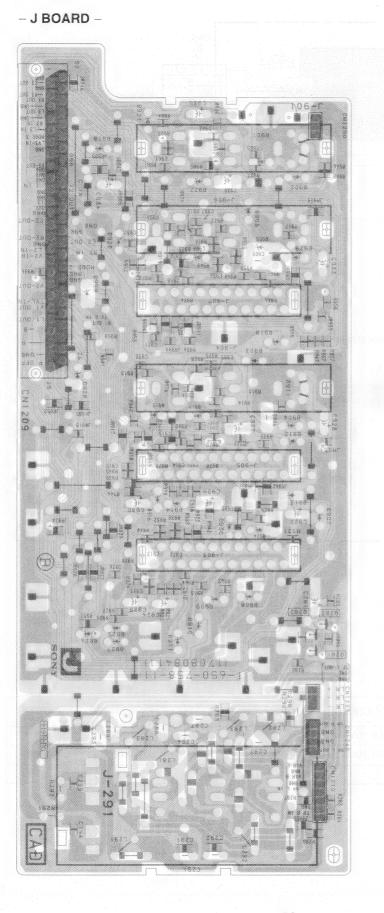




- · Pattern from the side which enables seeing.
- : Pattern of the rear side.

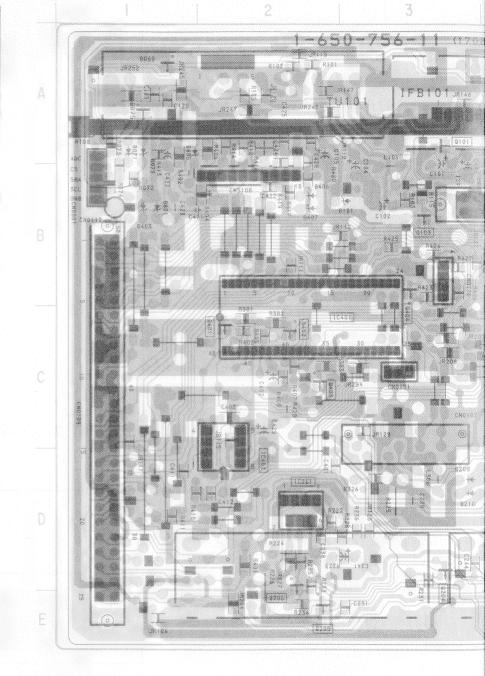


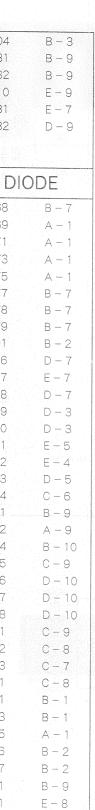




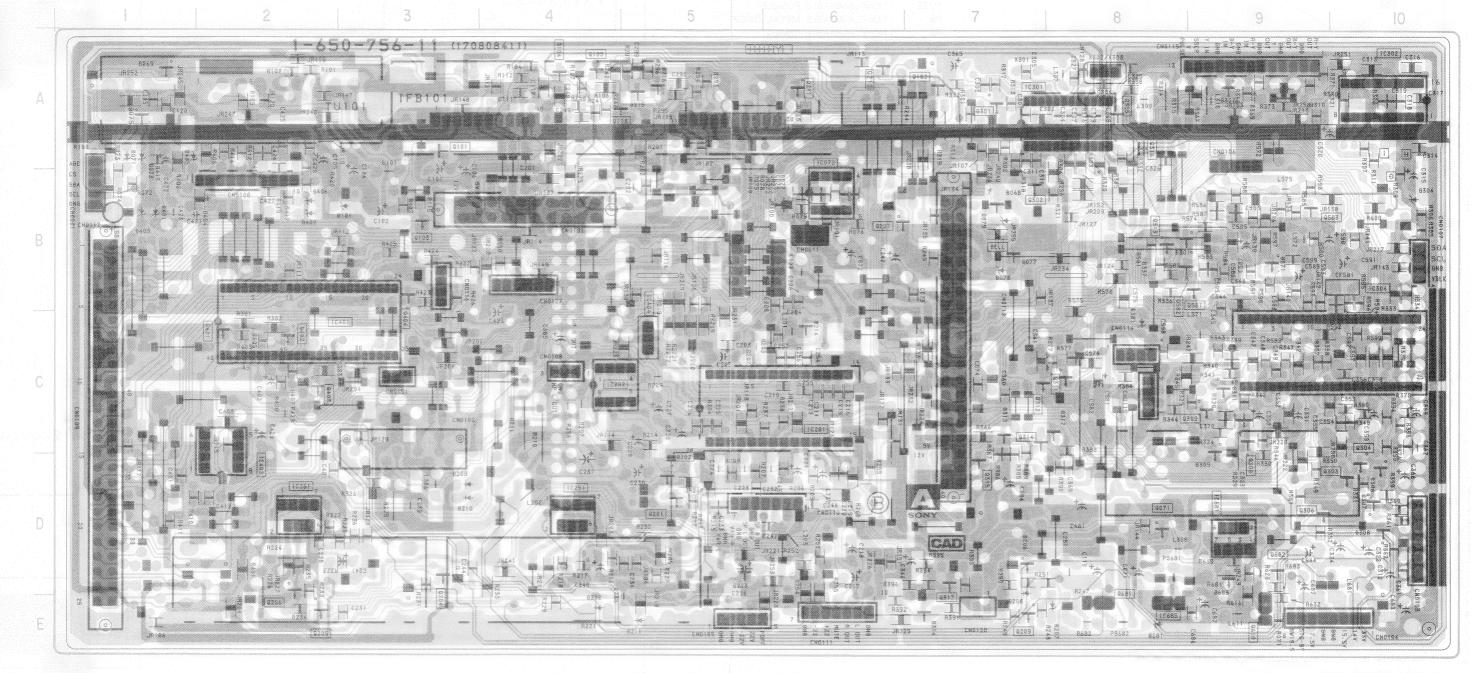
| IC | | 0404 | B-3 B-9 |
|---------|-----------------|--------------|-----------------------------|
| IC072 | B - 6 | Q581 Q582 | B – 9 |
| | C - 6 | Q610 | E – 9 |
| | C – 4 | Q681 | E-7 |
| IC251 | D - 4 | Q682 | D-9 |
| IC261 | D - 2 | 2002 | D |
| IC301 | A – 8 | | |
| IC302 | A - 10 | DI | |
| IC304 | C - 10 | DI | ODE |
| IC401 | C - 2 | D068 | B-7 |
| IC402 | D - 2 | D069 | A - 1 |
| IC681 | D - 9 | D071 | A - 1 |
| IC684 | C - 4 | D073 | A-1 |
| IC685 | E-8 | D075 | A - 1 |
| | | D077 | B - 7 |
| TRANSIS | STOP | D078 | B - 7 |
| | DIUN | D079 | B - 7 |
| Q071 | D - 8 | D101 | $^{10} = 10^{-1} = 10^{-1}$ |
| Q101 | A - 3 | D206 | D - 7 |
| Q102 | A - 7 | D207 | E-7 |
| | A – 3 | D208 | D - 7 |
| | D - 5 | D209 | D - 3 |
| | D - 5 | D210 | D-3 |
| | A - 4 | D211 | E - 5 |
| | D - 3 | D212 | E-4 |
| | E - 2 | D213 | D - 5 |
| | D - 2 | D214 | C - 6 |
| | B – 6 | D301 | B - 9 |
| | E - 7 | D302 | A - 9 |
| | A - 6 | D304 | B - 10 |
| | A - 7 | D305 | C - 9 |
| | B - 7 | D306 | D - 10 |
| | D - 10 | D307 | D - 10 |
| | D - 10 | D308 | D - 10 |
| | A - 8 | D311 | C - 9 |
| | D - 10 C - 9 | D312 | C - 8 |
| | 0 – 9 0 – 9 | D313 | C - 7 |
| | 0 – 9 0 – 8 | D381 | C - 8 B - 1 |
| | 0 – 8 0 – 8 | D401 | |
| | | D403 | B - 1 |
| | 3 - 8 | D405 | A – 1 |
| | 0-7 | D406 | B - 2 |
| | 0 - 7 | D407 | B-2 |
| | 0-2 | D571 | B - 9 |
| | 0 - 2 0 - 2 | D681 | E - 8 D - 9 |
| 2400 | J - Z | D683 | D - 9 |





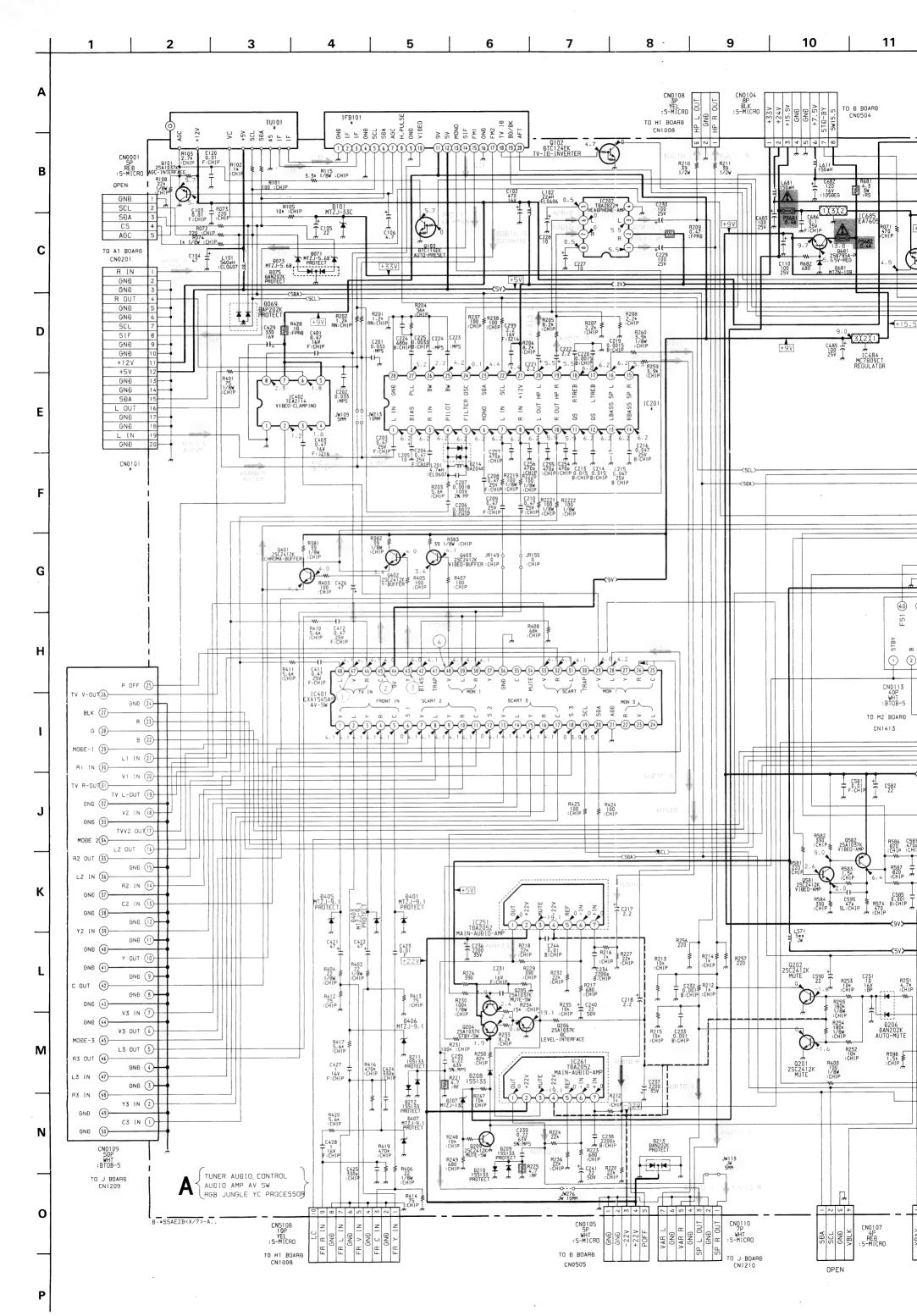


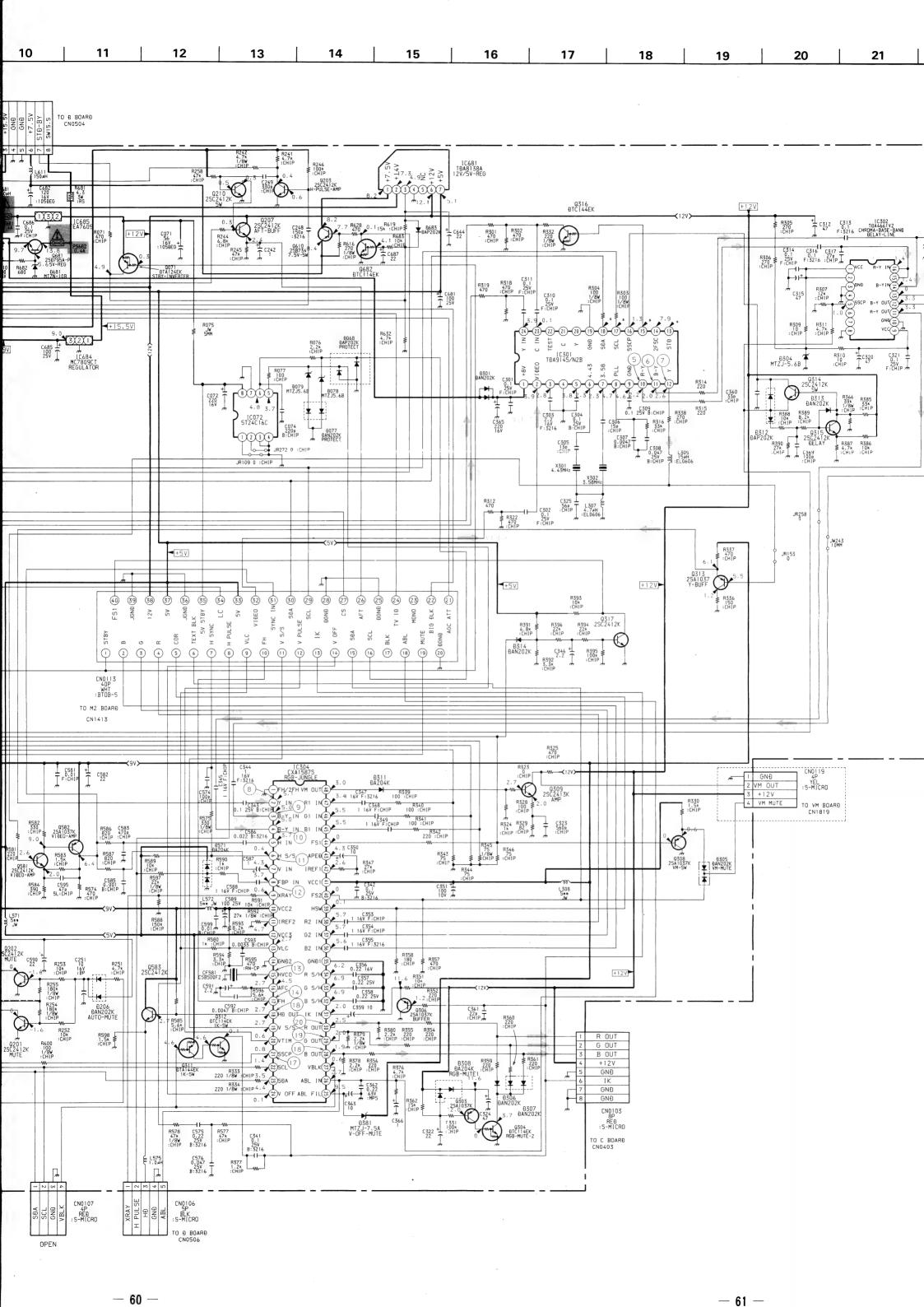
D-9



Note

- Pattern from the side which enables seeing.
- : Pattern of the rear side.

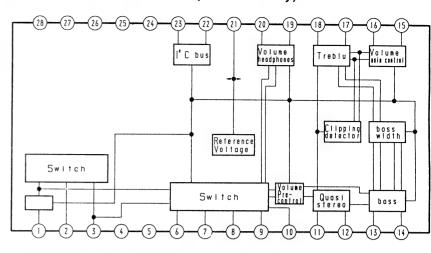




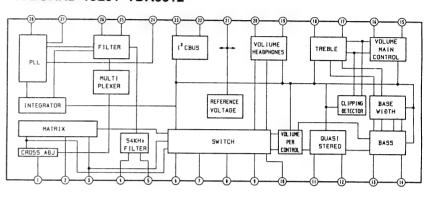
VEFORMS A BOARD

| VEFORIVIS A BO | AND | | • | |
|--|---------------------------|----------------------------|----------------|---------------------------------|
| PAL | 1) SECAM | ① NTSC | 2 PAL | 2 SECAM |
| | STATE OF THE PROPERTY. | | D-11 | |
| Vp-p(H) | 1.2 Vp-p(H) | 1.4 Vp-p (H) | 1.9 Vp-p(H) | 1.3 Vp-p(H) |
| NTSC | 3 PAL | 3 SECAM | 3 NTSC | 4 PAL |
| | Munnel | Mynny | Marray | 71-11-1 |
| 3 Vp-p (Н) | 2.3 Vp-p(H) | 2.2 Vp-p(H) | 2.7 Vp-p (H) | 2.3 Vp-p(H) |
| SECAM | 4 NTSC | 5 PAL | (5) SECAM | ⑤ NTSC |
| A PARTY OF THE PROPERTY OF THE | 1 | 1[-1]-1[- | 1[| A-A-A-A- |
| Vp-p(H) | 2.8 Vp-p(H) | 0.6 Vp-p(H) | 1.2 Vp-p(H) | 0.5 Vp-p(H) |
| PAL | 6 SECAM | 6 NTSC | 7 PAL, SECAM | 7 NTSC |
| <u> ՄԱՐ-ՄԱՐ-ՄԱ</u> | <u> - ՄԱՐ - ՄԱՐ - ՄԱՐ</u> | 0,1 0,1 0,1 0,1 | م المسممال | |
| 3 Vp-p(H) | 1.5 Vp-p(H) | 0.7 Vp-p(H) | 0.5 Vp-p (H) | 0.6 Vp-p (H) |
| PAL | 8 SECAM | (8) NTSC | 9 PAL, SECAM | 9 NTSC |
| Danner L | Marray | مرمهم مرمهمات | <u></u> | - 1/29 - 1/29 - 1/29 |
| 5 Vp-p (H) | 0.4 Vp-p (H) | 0.6 Vp-p (H) | 1.5 Vp-p(H) | 1.5 Vp-p(H) |
| PAL, SECAM | 10 NTSC | (1) | 12 | (13) |
| | A-A-A-A-A | | | \sqrt{M} |
| 2 Vp-p(H) | 1.0 Vp-p(H) | 5.2 Vp-p (H) | 6.7 Vp-p(H) | 0.12 Vp-p(540KHZ) |
| | (13) | (6) | () | (18) |
| | | | _/\/_ | տլևավևաւ |
| 7 Vp-p(H) | 3.8 Vp-p (H) | 5.0 Vp-p(H) | 8.9 Vp-p(H) | 3.3 Vp-p (H) |
| | 20 | | | |
| | | | | |

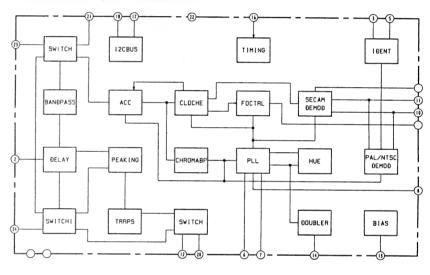
· A BOARD IC201 TDA6622 (UK Model only)

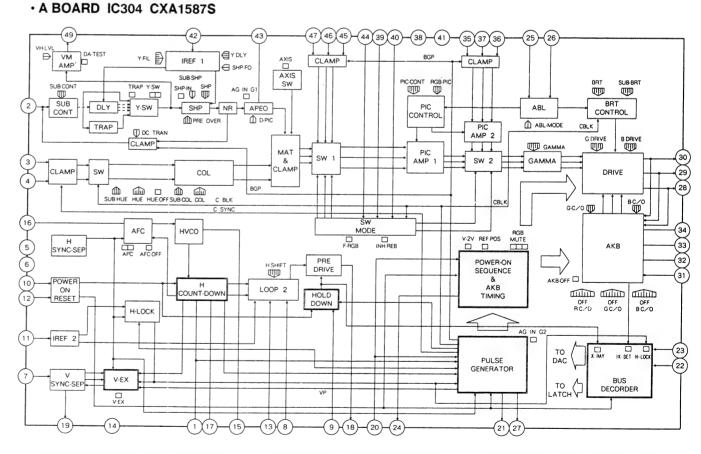


· A BOARD IC201 TDA6612



• A BOARD IC301 TDA9145





b the voltage volue shown by mark ※ on the Schematic ram, see the another list.

ՆՄՆՄՆՄՆ

4.1 Vp-p (H)

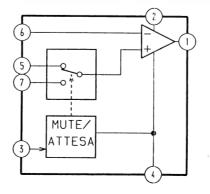
ARD

Vp-p(H)

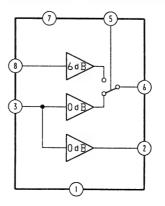
| PAL | SECAM | NTSC3.58 | NTSC4.43 |
|-----|---|---|---|
| 0.0 | 0.0 | 4.8 | 4.9 |
| 0.0 | 5.0 | 5.0 | 0.0 |
| 4.7 | 4.2 | 3.6 | 4.1 |
| 4.3 | 4.4 | 4.6 | 4.8 |
| 0.0 | 0.0 | 0.0 | 1.6 |
| 5.5 | 5.5 | 5.5 | 0.1 |
| 0.0 | 5.5 | 5.5 | 0.0 |
| 0.0 | 0.0 | 0.0 | 1.6 |
| | 0.0 0.0 4.7 4.8 0.0 5.5 0.0 | 0.0 0.0 0.0 5.0 4.7 4.2 4.8 4.4 0.0 0.0 5.5 5.5 0.0 5.5 | 0.0 0.0 4.8 0.0 5.0 5.0 4.7 4.2 3.6 4.3 4.4 4.6 0.0 0.0 0.0 5.5 5.5 5.5 0.0 5.5 5.5 |

KV-X2971B KV-X2971D KV-X2971K KV-X2973E KV-X2972U 20P 20P TDA6612 TDA6612 TDA6612 TDA6612 TDA6622 IFH-389F IFH-389 IFH-389 IFH-389 IFH-395 UV916H UV916H UV916H UV916H U944C

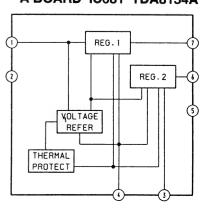
• A BOARD IC251/261 TDA2052



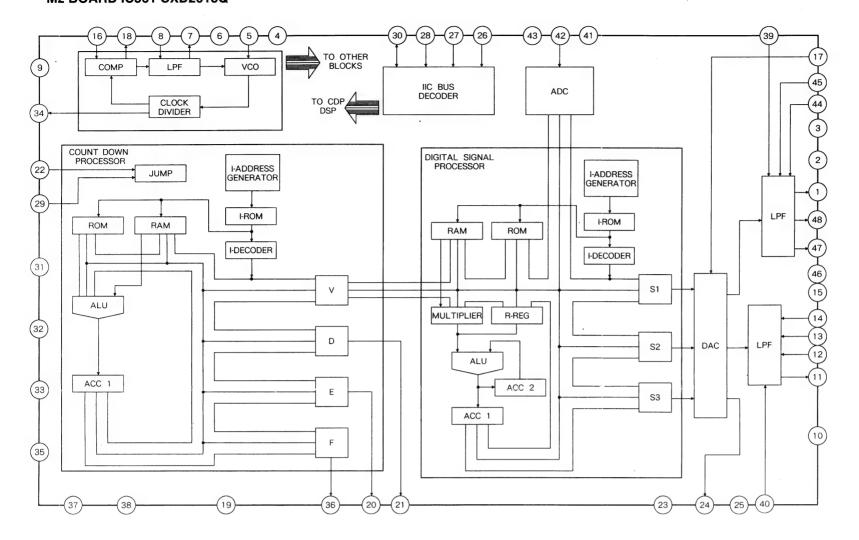
· A BOARD IC402 TEA2114



· A BOARD IC681 TDA8134A



• M2 BOARD IC561 CXD2018Q

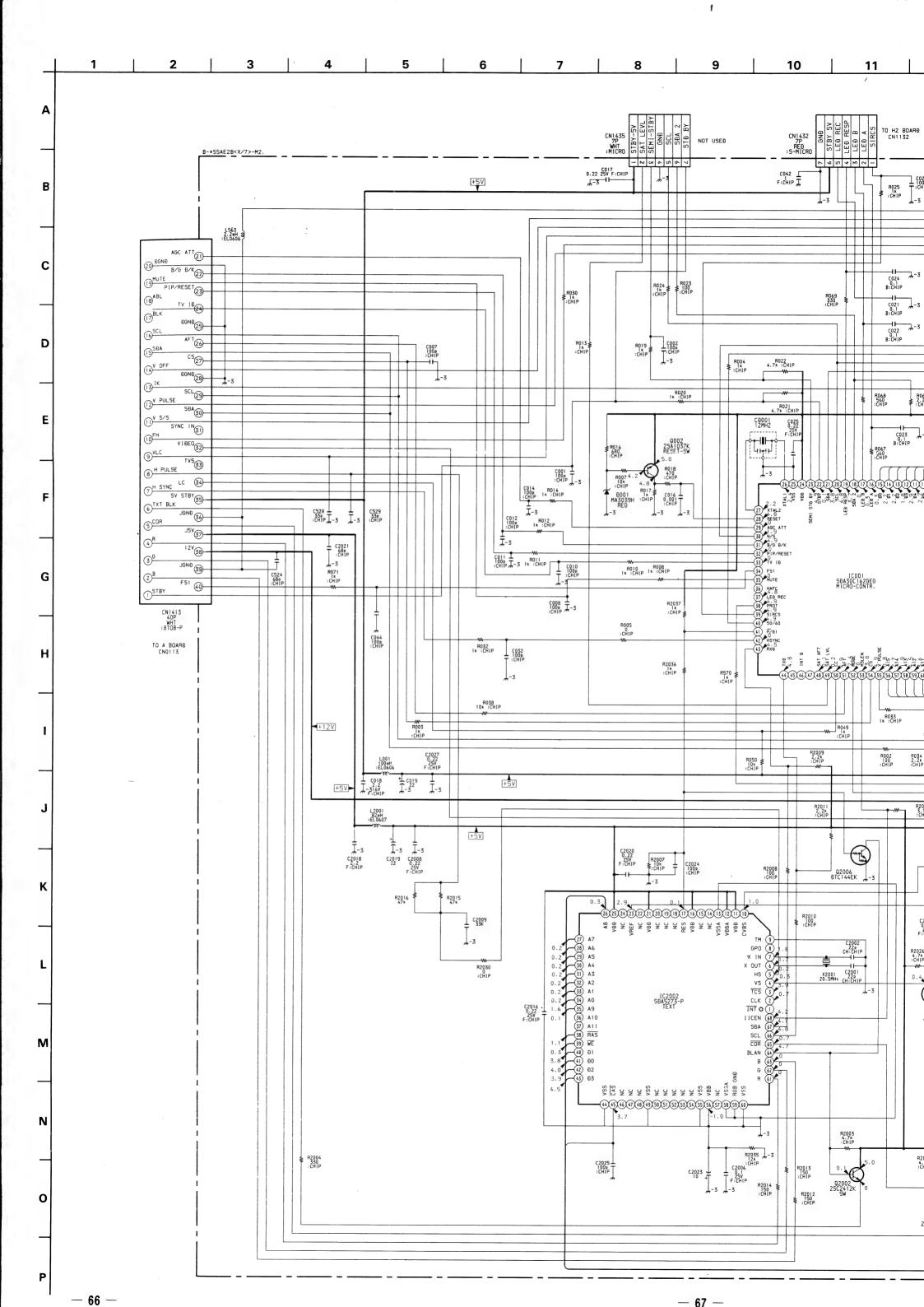


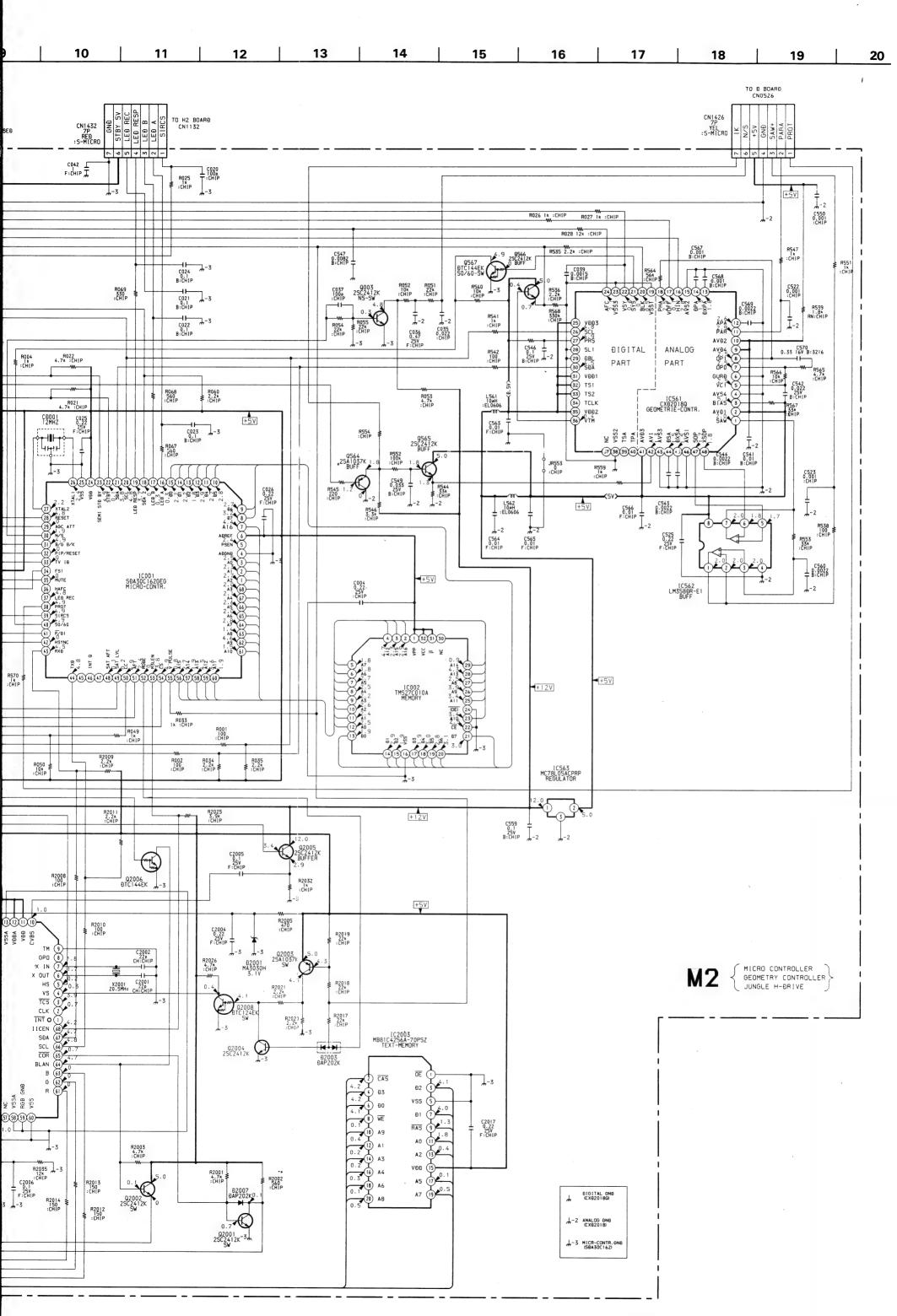
Α В С D E G Н

1

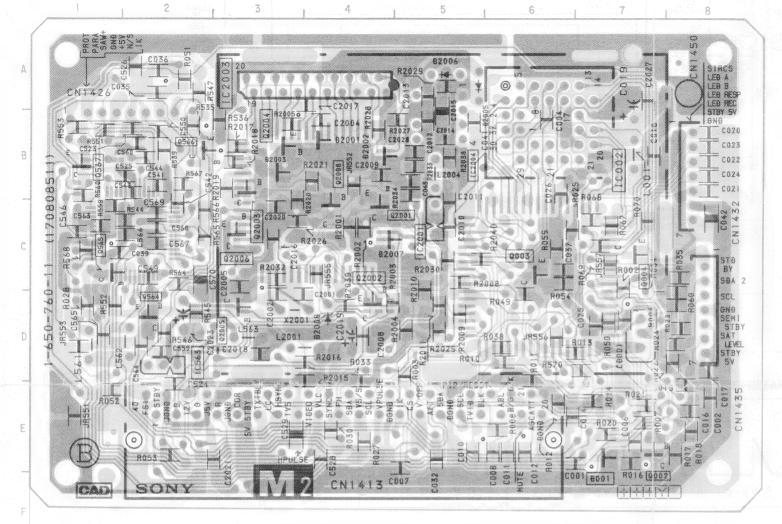
64

- 65 —





- M2 BOARD -



| 09/16 | 240 | an Pa | | IVI2 |
|--------------------------------------|---|--|--|---|
| | | | oz oz | |
| 7078H 0x | E9501 (2) | CM1412 | | SAT SAT SEAT |
| 9 9 9 00 | | | Control of the Contro | 35.7 |
| E 12 | 7007X - 1007X | S R2014 R2014 R2016 R201 | | CN 14 608 SCL 58A STB |
| 55 | | 0.2200 | SA F | -55 A H H BY |
| 5 H ³ / ₂ F 9, | 2. | | 55.66 | OND UBA ZA UBA Z |
| 77531 3 20 | R 55. | 102002 47 102094 47 102094 | 10002 | dS34 631 8 631 8 631 9 621 |
| | THE RESIDENCE OF THE PROPERTY | CSOSS SILCSO | | SINCE |
| (1128080) | 2 0 0 0 0 | 90028 | | 52 CN1458 |

| | IC |
|--------|----------------|
| IC001 | C - 3 |
| IC002 | B - 3, J - 3 |
| IC561 | C - 8 |
| IC562 | B - 8 |
| IC563 | D - 7, H - 7 |
| IC2001 | C - 4, $I - 4$ |
| IC2002 | C-6 |
| IC2003 | B - 5, J - 6 |
| IC2004 | A - 4, J - 4 |
| | |
| | |

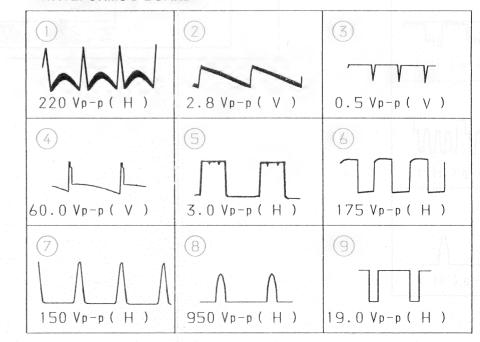
| TRAN | ISISTOR |
|-------|---------|
| Q002 | G – 2 |
| Q003 | 1 – 3 |
| Q564 | H - 7 |
| Q565 | 1-8 |
| Q566 | J - 7 |
| Q567 | J-8 |
| Q2001 | 1-5 |
| Q2002 | J-5 |
| Q2003 | 1-6 |
| Q2005 | H - 5 |
| Q2006 | K - 5 |
| Q2008 | 1-6 |
| | |
| D | IODE |

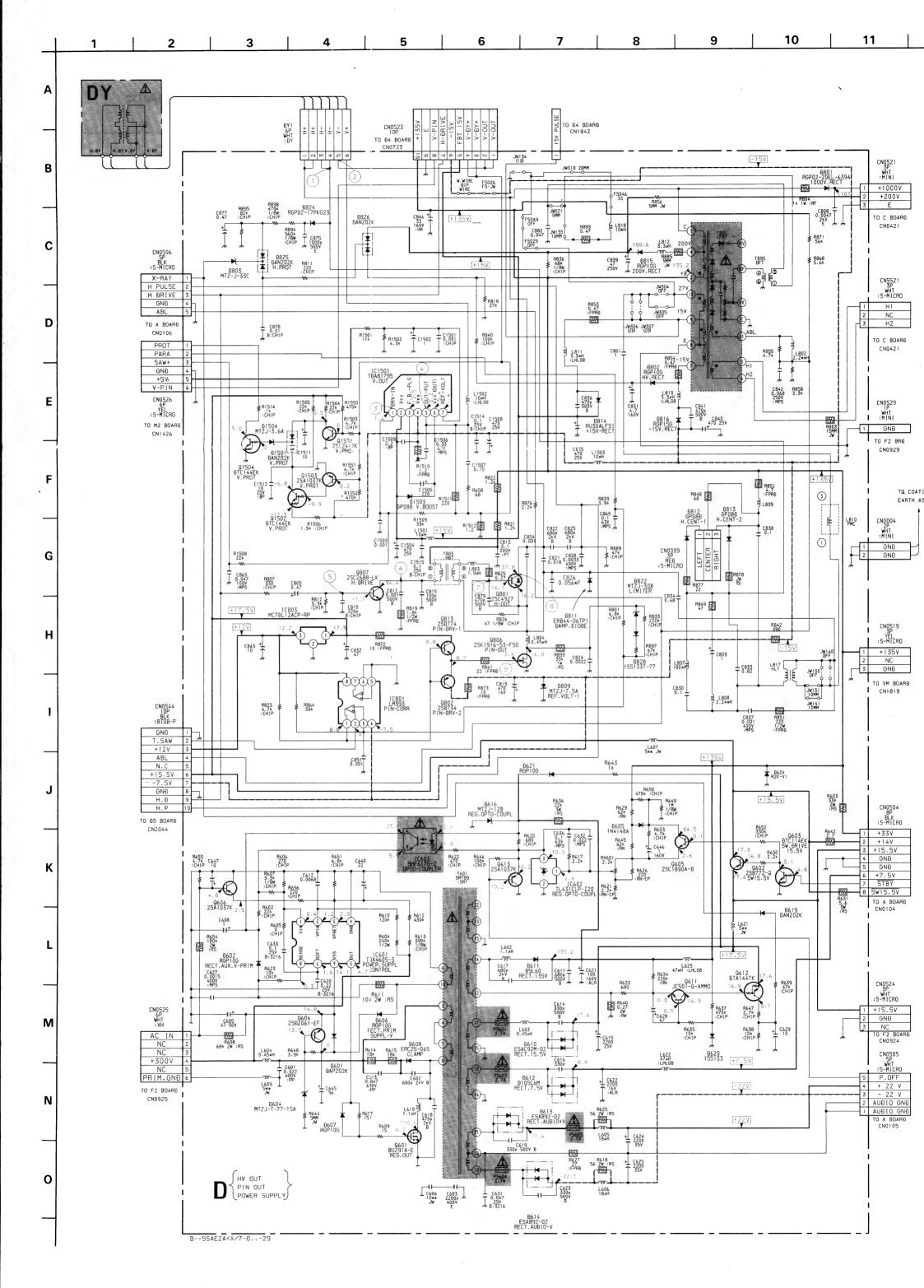
DIODE D001 G - 2 D2001 I - 5 D2002 J - 5 D2003 I - 6

Note:

- · Pattern from the side which enables seeing.
- : Pattern of the rear side.

· WAVEFORMS D BOARD

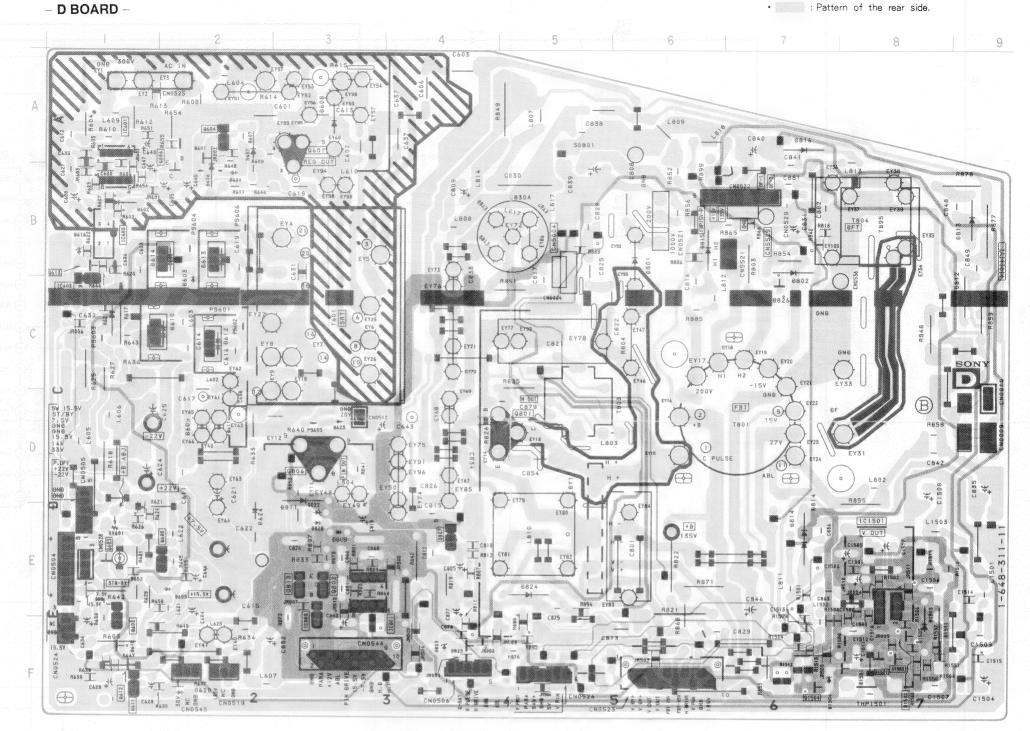


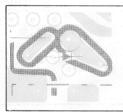




• Pattern from the side which enables seeing

• Pattern of the rear side.

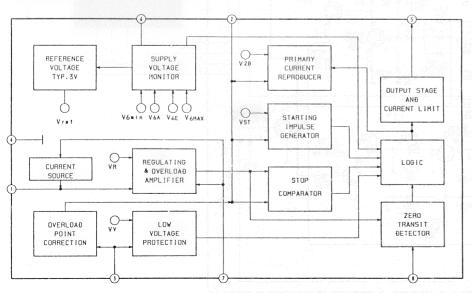




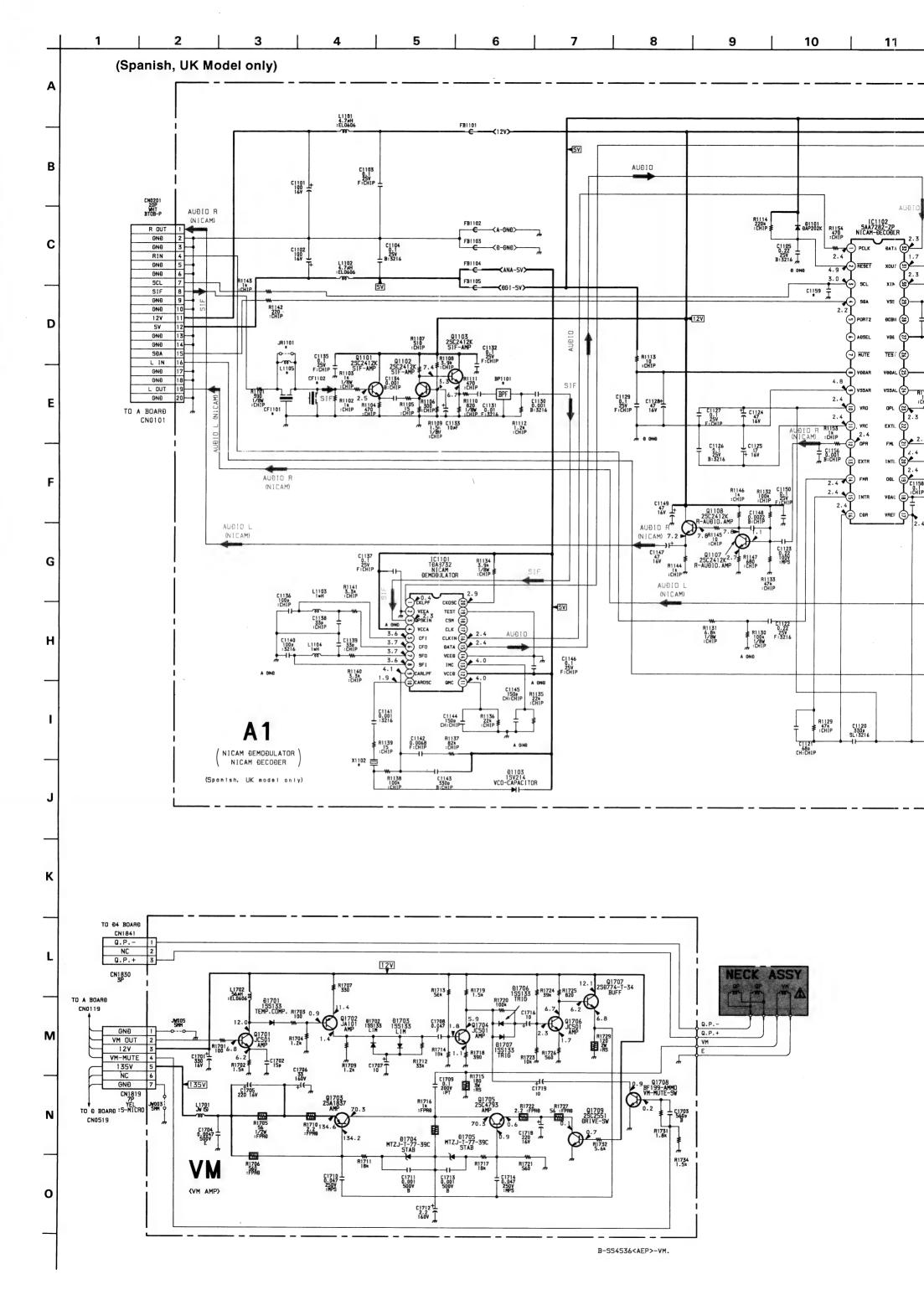
NOTE:

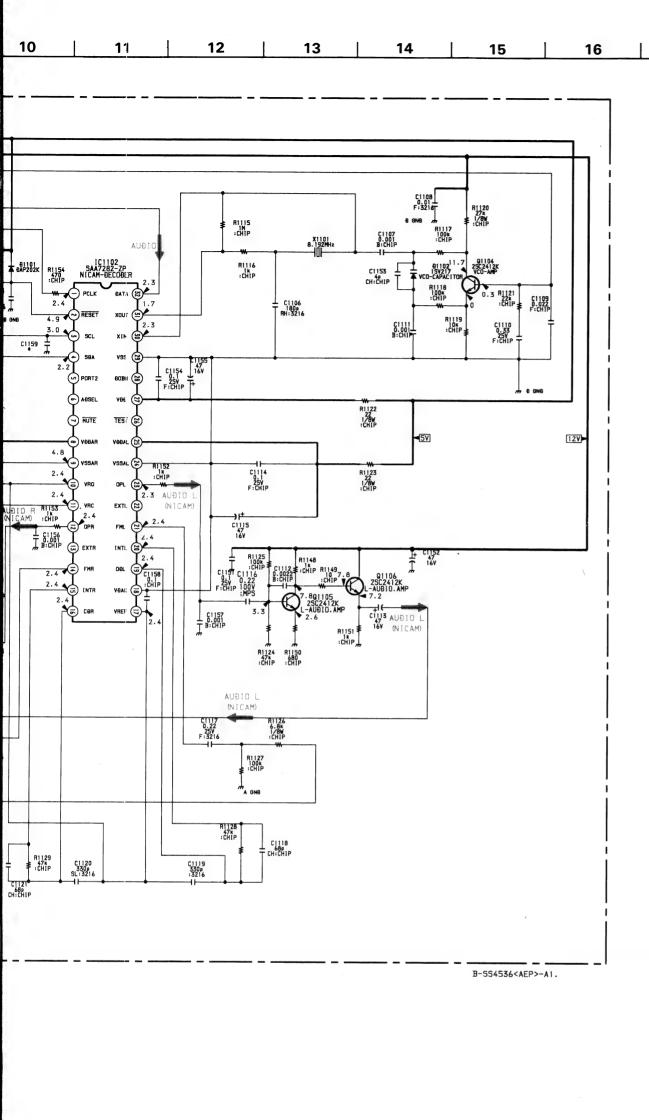
The circuit indicated as left contains high voltage of over 600 Vp-p. Care must be paid to prevent an electric shock in inspection or repairing.

• D BOARD IC601 TDA4605-3



| | IC601 IC602 IC603 IC801 IC803 IC1501 | A - 1 C - 1 B - 1 E - 3 F - 3 E - 8 | D607 D608 D610 D611 D612 D613 D614 D616 | A - 2 A - 3 C - 2 D - 2 C - 2 B - 2 B - 2 B - 1 | | | |
|---|--|---|--|--|--|--|--|
| | TRANS | SISTOR | D619 D620 | F-1 F-2 | | | |
| | Q601 Q602 Q603 Q604 Q605 Q606 Q611 Q612 Q613 Q801 Q802 Q806 Q807 Q813 Q1501 Q1502 Q1503 Q1504 | A - 3 F - 1 E - 1 A - 2 E - 2 B - 1 F - 1 B - 1 D - 3 E - 3 E - 4 E - 3 F - 8 F - 8 F - 7 | D621 D624 D801 D802 D803 D809 D811 D812 D813 D814 D815 D816 D822 D824 D825 D826 D828 D1501 D1503 D1504 | C-1 E-2 B-6 B-7 F-4 E-3 D-9 B-7 B-7 B-7 E-5 F-4 C-7 E-3 F-8 F-7 | | | |
| | | DDE | | | | | |
| | D601 D602 D604 D605 D606 | A - 2 B - 1 B - 2 E - 2 B - 2 | | ABLE STOR E-1 | | | |
| 1 | | | | | | | |

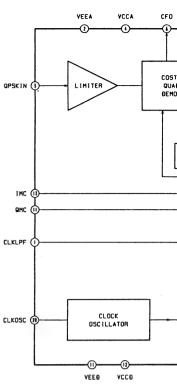


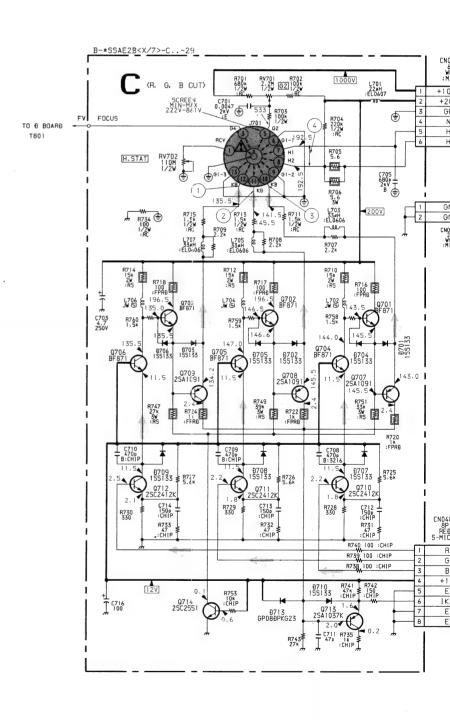


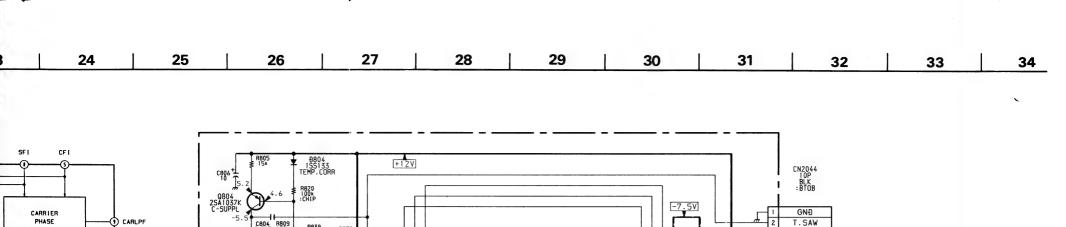
A1 BOARD * MARK

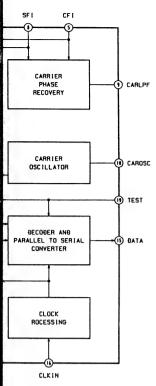
| Model | KV-X2973E | KV-X2972U |
|--------|-----------|-----------|
| BP1101 | 5.850MHz | 6.552MHz |
| C1159 | - | 47P |
| CF1101 | - | 6.0MHz |
| CF1102 | 5.5MHz | - |
| JR1101 | 0 : CHIP | - |
| L1105 | - | 15MMh |
| X1102 | 11.700MHz | 13.104MHz |

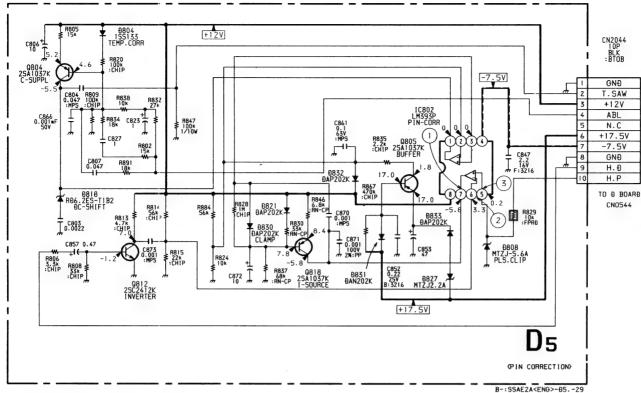
· A1 BOARD IC1101 TE



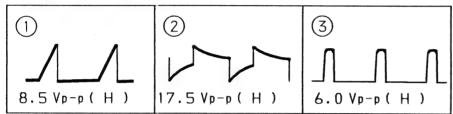


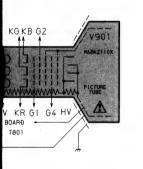


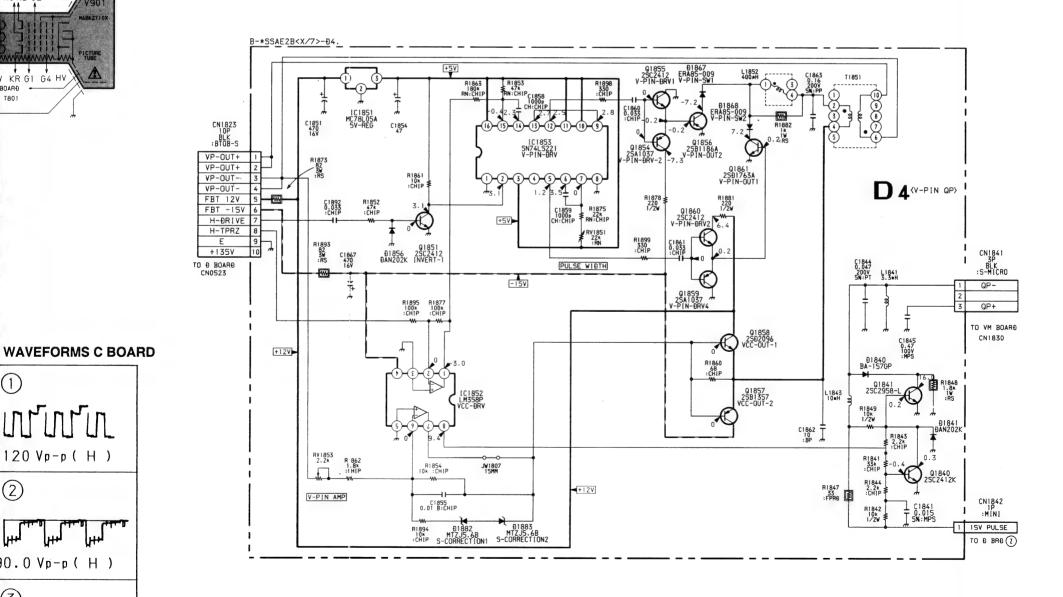




• WAVEFORMS D5 BO∴RD



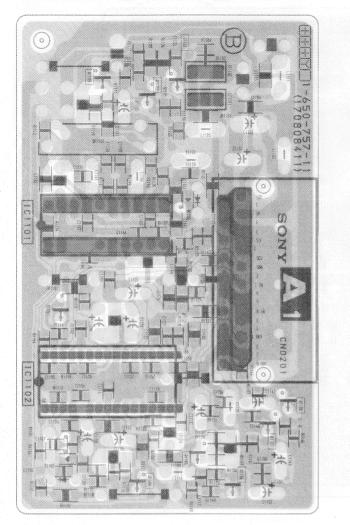




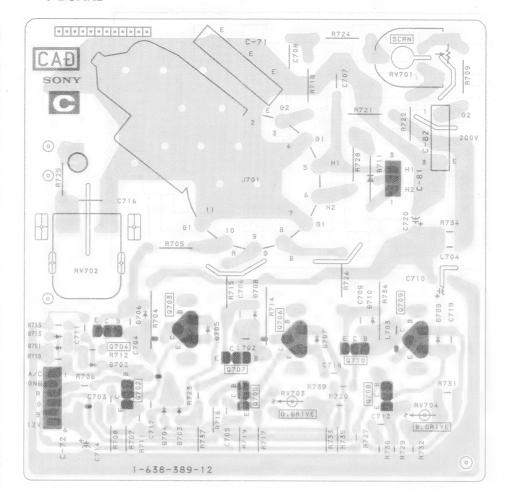
MAMA 120 Vp-p (H) 2 90.0 Vp-p (H) 3 35.0 Vp-p(H) 4 22.0 Vp-p(H)

VM [VM AMP] D4 [V-PIN Q P]

- A1 BOARD - (Spanish, UK Model only)



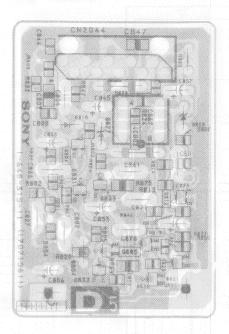
- C BOARD -



Note:

- · Pattern from the side which enables seeing.
- · : Pattern of the rear side.

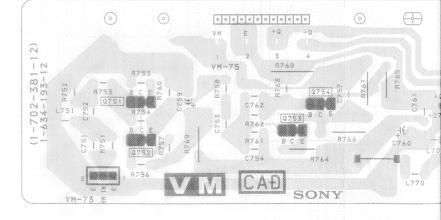
- D5 BOARD -



Note:

- Pattern from the side which enables seeing.
- Pattern of the rear side.

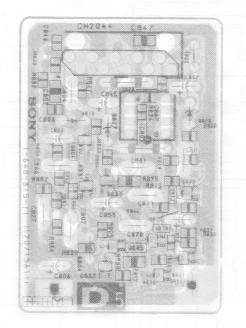
- VM BOARD -



— 79 —

1-638-389-12

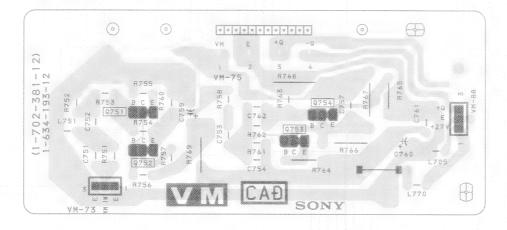
- D5 BOARD -



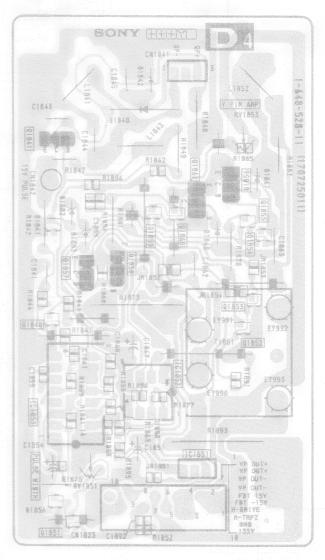
Note:

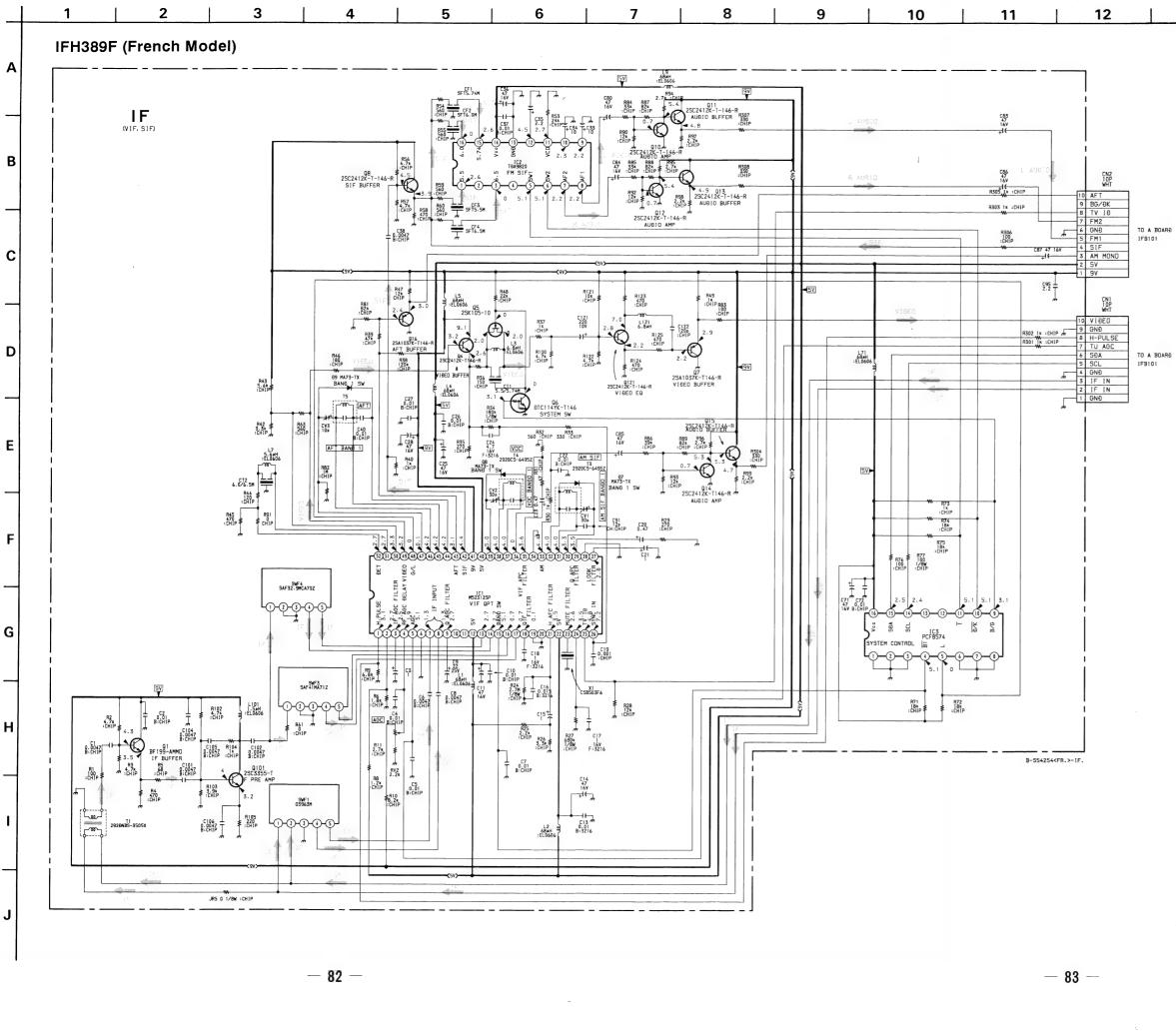
- · Pattern from the side which enables seeing.
- : Pattern of the rear side.

- VM BOARD -

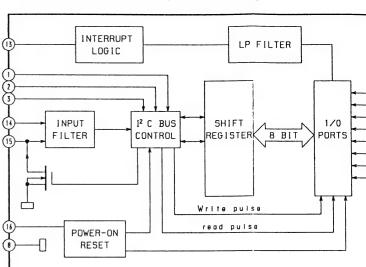


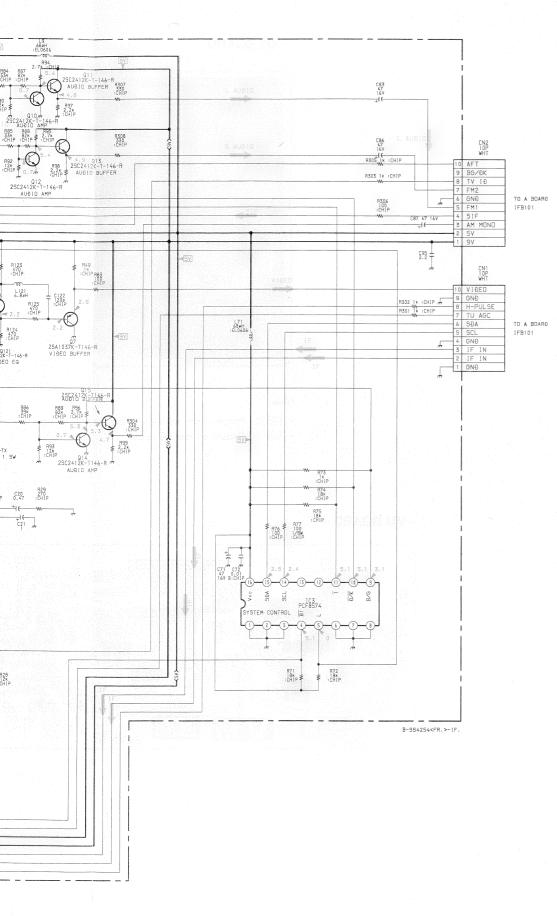
- D4 BOARD -



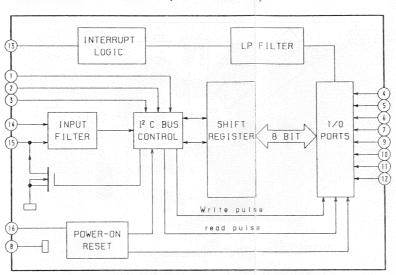


• IF BOARD IC3 PC8574 (French Model)



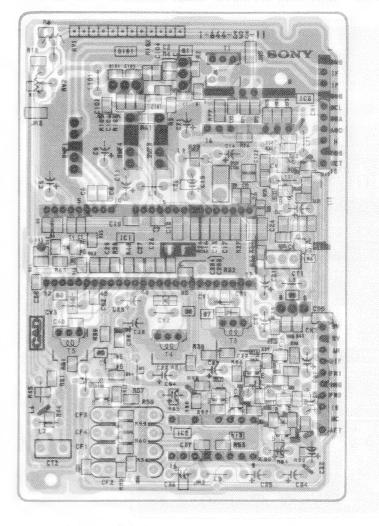


· IF BOARD IC3 PC8574 (French Model)



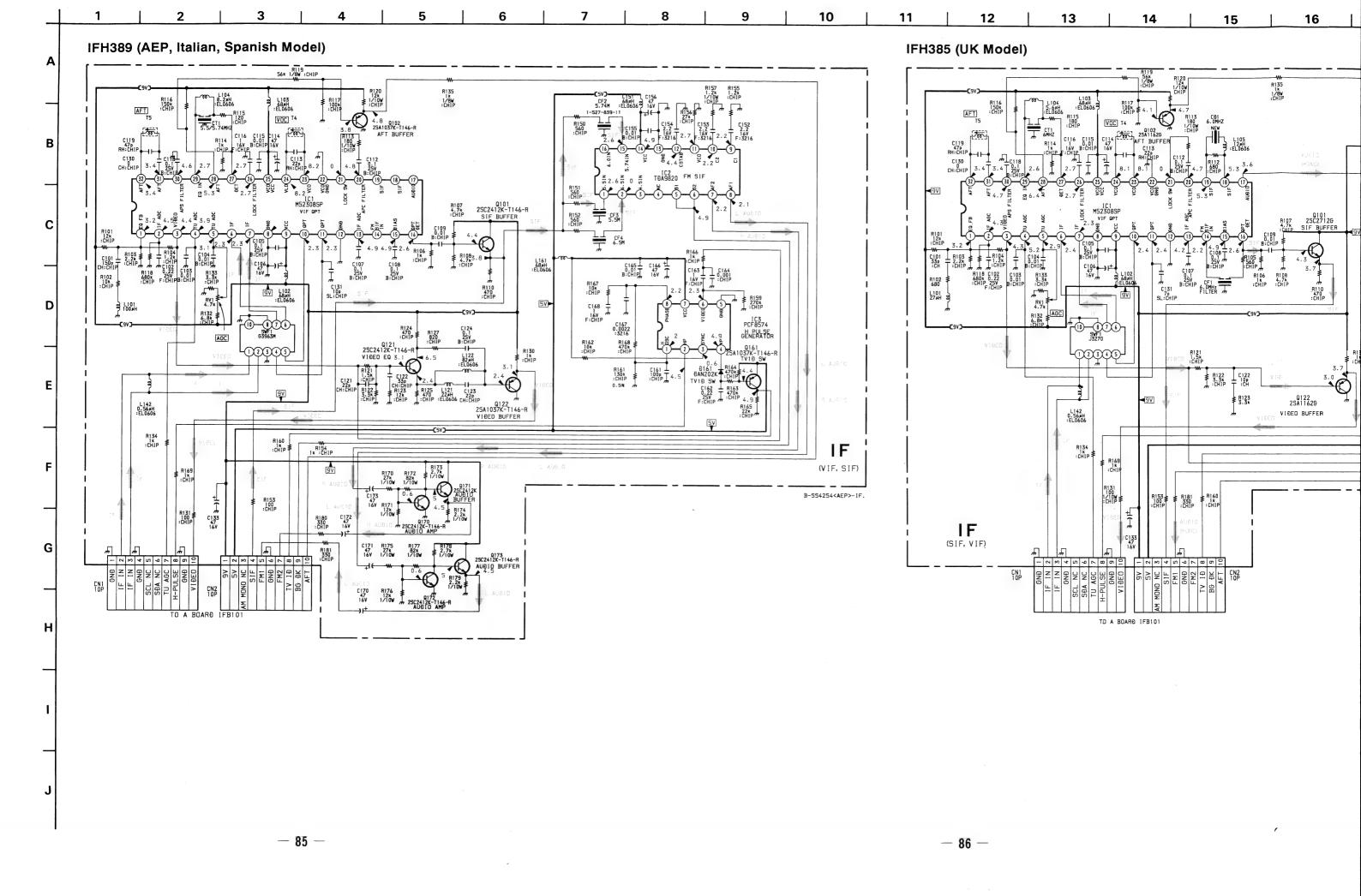


- IF BOARD - (French Model)



Note:

- · Pattern from the side which enables seeing.
- · : Pattern of the rear side.



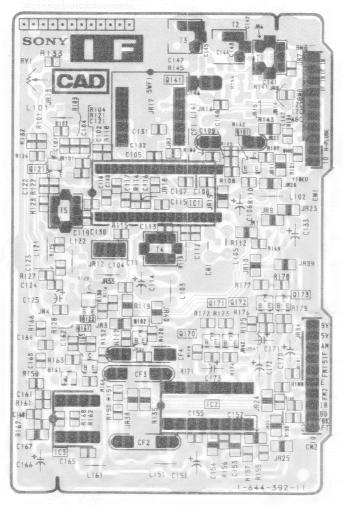


₹ R123 3.3k Q122 25A1162G

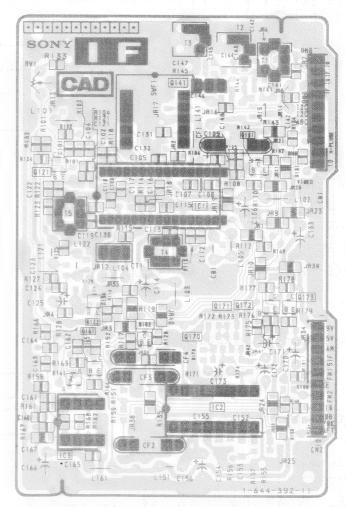
VIĐEO BUFFER



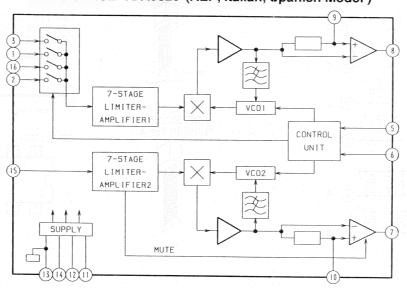




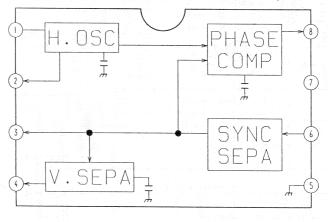
- IF BOARD - (UK Model)



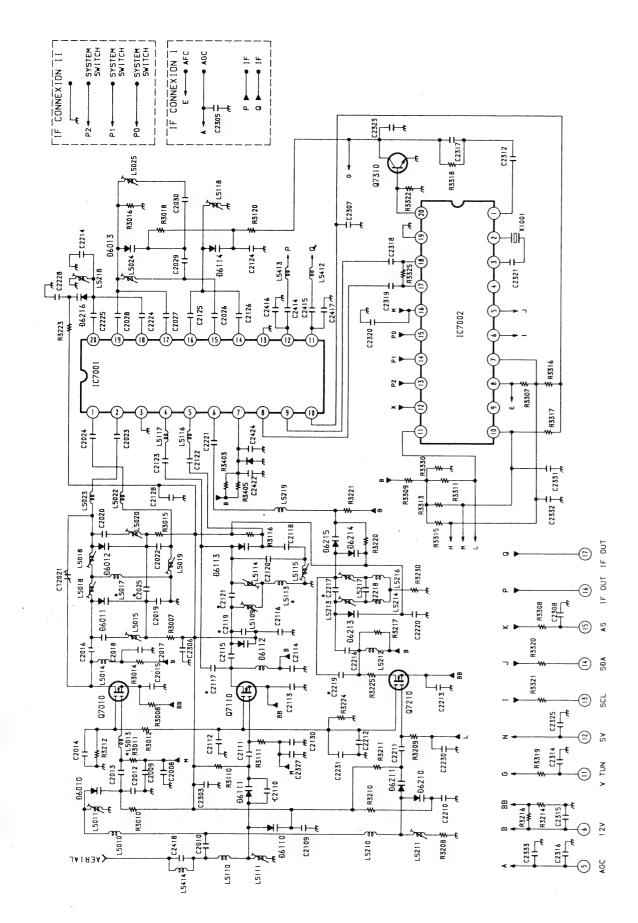
• IF BOARD IC2 TDA9820 (AEP, Italian, Spanish Model)



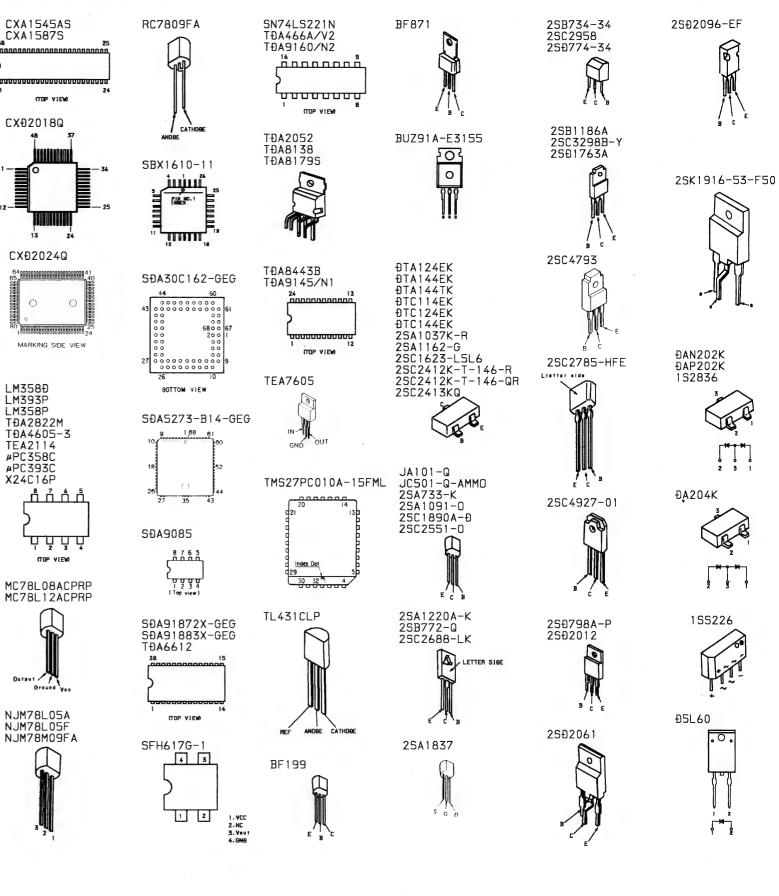
• IF BOARD IC3 BA7046 (AEP, Italian, Spanish Model)

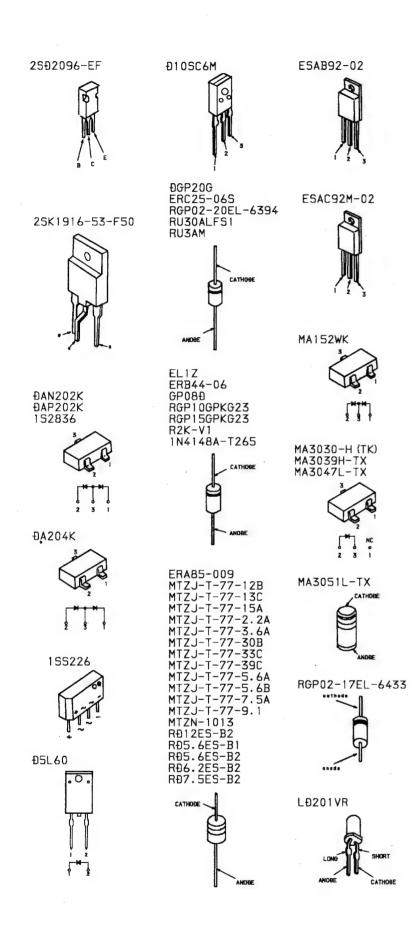


B-SS4254<UK.>-IF.



5-5. SEMICONDUCTORS





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SECTION 6

EXPLODED VIEWS

NOTE:

Items with no part number and no description

The construction parts of an assembled part

are indicated with a collation number in the

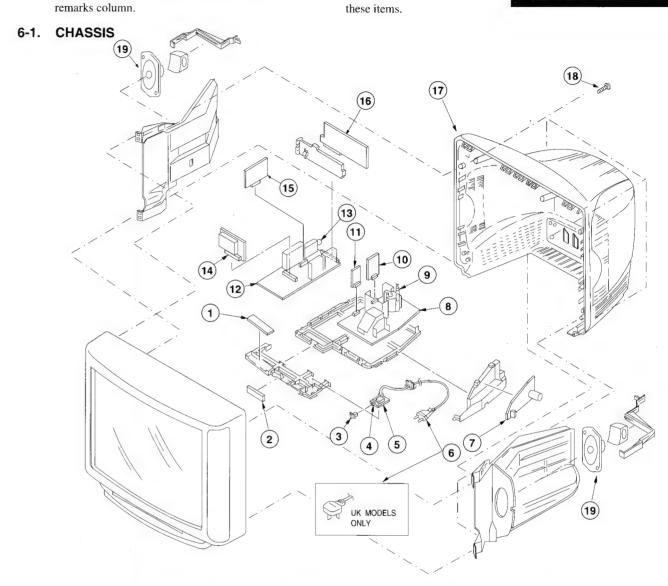
for routine service.

are not stocked because they are seldom required

Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering

The components identified by shading and marked / are critical for safety.

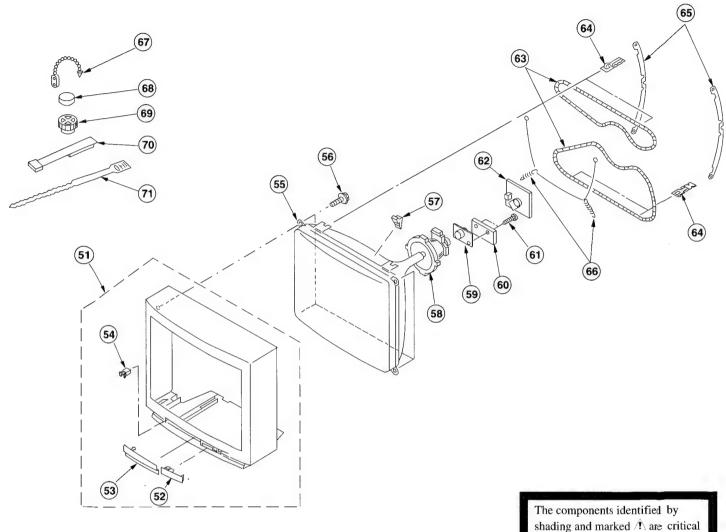
Replace only with the part number specified.



| REF NO | PART NO | DESCRIPTION | REMARK | REF NO | PART NO | DESCRIPTION | REMARK |
|--------|----------------|----------------------|---------------------|--------|---------------|------------------------|-----------|
| 1 | *A-1646-045-A | H1 BOARD, COMPLETE | | 11 | *A-1640-109-A | D5 BOARD, COMPLETE | |
| 2 | *1-650-759-11 | H2 BOARD | | 12 | *A-1632-170-A | A BOARD, COMPLETE | |
| 3 | 4-202-637-01 | BUTTON, POWER | | | | (KV-X2971A, X2921D, X | K2971K) |
| 4 | 1 1-571-433-11 | SWITCH, PUSH (AC POW | (ER) | | *A-1632-183-A | A BOARD, COMPLETE (KV- | |
| 5 | *1-648-312-11 | F1 BOARD | | | *A-1632-177-A | A BOARD, COMPLETE (KV- | X2972U) |
| 6 | 1 1-751-680-11 | CORD, POWER (WITH NO | DISE FILTER) | | *A-1632-180-A | A BOARD, COMPLETE (KV- | X2973E) |
| | | (KV-X297) | LA, X2971D, X2971K) | 13 | | TUNER (U944C) (KV-X29 | |
| | 1 1-690-270-21 | CORD, POWER (WITH CO | | | | TUNER (UV916H) (KV-X29 | |
| | | | KV-X2971B, X2973E) | | | X2971K, X2973E, X29 | |
| | 1-590-762-11 | CORD, POWER (WITH PI | LUG) (KV-X2922U) | 14 | *A-1635-015-A | M2 BOARD, COMPLETE | , |
| 7 | | F2 BOARD, COMPLETE | | 15 | | A1 BOARD, COMPLETE (K | V-X2972U) |
| 8 | | D BOARD, COMPLETE | | | | A1 BOARD, COMPLETE (K | |
| 9 | 1-453-153-11 | TRANSFORMER ASSY, FL | YBACK (NX-JU2602A2) | 16 | | J BOARD, COMPLETE | , |
| 10 | | D4 BOARD, COMPLETE | • | 17 | 4-043-530-01 | | |
| | | | | 18 | 4-039-358-11 | SCREW (4x16), (+) BV T | APPING |
| | | | | 19 | 1-544-728-11 | | |

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6-2. PICTURE TUBE



shading and marked 1 are critical for safety.

Replace only with the part number specified.

| REF NO | PART NO | DESCRIPTION | REMARK | REF NO | PART NO | DESCRIPTION | REMARK |
|----------|-----------------|----------------------------|----------------|--------|---------------|-------------------------|--------|
| 51 | 4-4031-666-1 | CABINET ASSY (WITH BEZI | EL ASSY) 52-54 | 62 | *A-1638-042-A | C BOARD, COMPLETE | |
| 52 | 4-202-643-01 | WINDOW, ORNAMENTAL | | | 1-406-807-21 | COIL, DEGAUSSING | |
| 53 | 4-202-642-01 | DOOR | | 64 | 4-202-415-01 | CLIP, DGC (29") | |
| 54 | 4-392-036-01 | CATCHER, PUSH | | 65 | 4-202-416-01 | BAND, DGC | |
| 54 55 | 8-733-841-05 | PICTURE TUBE (M68KZT10) | () | 66 | 4-200-433-01 | SPRING, EXTENSION | |
| 56 | 4-036-188-01 | SCREW (M), PT | | 67 | | CLIP, LEAD WIRE | |
| 57 | 3-704-495-01 | SPACER, DY | | 68 | 1-452-032-00 | MAGNET, DISK; 10MM | |
| 58 59 | 8-451-422-11 | DEFLECTION YOKE (Y29GX) | \ } | 69 | 1-452-094-00 | MAGNET, ROTATABLE DISK: | : 15MM |
| 59 | 4. 1-452-509-11 | NECK ASSY. PICTURE TUBI | S (NA308) | 70 | X-4306-312-0 | PERMALLOY ASSY, CONVERG | ENCE |
| 60 | *A-1644-040-A | VM BOARD, COMPLETE | | 71 | | BAND, BINDING | |
| 61 | | SCREW 3x8, BV TAPPING | | | | , | |
| | | 201111 0110, 01 11111 1111 | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

ELECTRICAL PARTS LIST SECTION 7

The components identified by shading and marked 1 are critical for safety. Replace only with the part number specified.

1-249-436-11 CARBON

Items marked "* " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

number, please include the board name.

When indicating parts by reference:

CAPACITORS

COILS

MF: mF, PF: mmF

MMH: mH, µH:

RESISTORS

- All resistors are in ohms





F2 F1 A1 (KV-X2972U) KV-X2973E)

| • F: nonflammab | | | | | | 1 4 | 1 1 | Λ | \ KV-) | (29/3E / |
|------------------|------------------------------|--|--|--------------|----------------|------------------------------|--------------|----------------|------------|------------|
| REF.NO. | PART NO. | DESCRIPTION | | REMARK | REF.NO. | PART NO. | DESCRIPTION | <u>DN</u> | | REMARK |
| | *A-1624-018-A | F2 BOARD, COMPLETE (KV-1 | | X2971D, | R671 | 1-249-417-11 | CARBON | 1K 5% | 1/4W | F |
| | *A-1624-036-A | F2 BOARD, COMPLETE (KV-X | (2971B, | X2973E, | PV661 3 | < REL 1-515-720-31 | | | | |
| | < CAF | PACITOR > | 120) | | ****** | | RMISTOR > | | | |
| C661 | 1-136-519-12 | | 20% | 300V | THP661 + | 1-809-827-11 | | POSTTIVE | | |
| C662 | 1-136-518-12 | FILM 0.33MP | 20% 20% | 300V 400V | ****** | ******* | ***** | ****** | ***** | ***** |
| C666 C667 | 1-124-479-11 1-126-337-11 | ELECT 330MF ELECT 22MF | 20% 20% | 25V 50V | | *1-648-312-11 | F1 BOARD | | | |
| C672 A | 1-161-964-61 1-161-964-61 | CERAMIC 0.0047MF CERAMIC 0.0047MF | | 250V 250V | | < CON | NECTOR > | | | |
| C674 | 1-125-555-11 | ELECT 330MF | 20% | 400V | | *1-580-844-11 | | | | |
| | < COM | NECTOR > | | | CN0831 1 | *1-695-292-11 | PIN, CONNECT | OR (POWER) | | |
| CN0005 CN0007 | 1-508-765-00 1-508-786-00 | PIN, CONNECTOR (5MM PITO PIN, CONNECTOR (5MM PITO | | | | < FUS | E > | | | |
| CN0924 CN0925 | *1-568-878-51 | PIN, CONNECTOR 3P PIN, CONNECTOR (PC BOAR) | • | | F651 <u>r</u> | 1-576-232-21 | FUSE (H.B.C. |) 5A/250V | | |
| CN0929 | 1-508-784-00 | PIN, CONNECTOR (5MM PIT | | | | < SWI | TCH > | | | |
| CN0931 | *1-691-291-11 | PIN, CONNECTOR (PC BOAR | D) 5P | | 8651 r | 1-571-433-11 | SWITCH, PUSH | (AC POWER) | | |
| | < DIC | DDE > | | | ****** | ******* | ****** | ****** | ***** | ***** |
| D661 D663 | | DIODE 1SS133 | | | | *A-1632-179-A | A1 BOARD, CO | | X2973E) | |
| D664 | | DIODE D4SB60L DIODE RD5.6ESB2 | | | | *A-1632-178-A | | MPLETE (KV- | K2972U) | |
| | < TRA | ANSFORMER > | | | | | | ***** | | |
| LF661 | | TRANSFORMER, LINE FILTE | | | | | ACITOR > | | | 4.4 |
| LF664 1 | 1-424-391-11 | TRANSFORMER, LINE FILTE (KV-X2971A, | | | C1101 C1102 | 1-126-101-11 1-126-101-11 | ELECT | 100MF 100MF | 20% 20% | 16V 16V |
| | < TR | ANSISTOR > | | | C1103 C1104 | 1-163-077-00 1-163-077-00 | | | 10% 10% | 25V 25V |
| Q661 | 8-729-920-74 | TRANSISTOR 2SC2412K-QR | | | C1105 | 1-164-489-11 | CERMAIC CHIP | 0.22MF | 10% | 16V |
| | < RE | SISTOR > | | | C1106 C1107 | 1-163-383-91 1-163-009-11 | | | 5% 10% | 50V 50V |
| R663 1 | | | 1/2 | ą. | C1108 C1109 | 1-163-059-00 1-163-033-00 | CERAMIC CHIP | 0.01MF | | 50V 50V |
| R664 / | 1-205-949-11 | | 10W 1W | | C1110 | 1-164-336-11 | | | | 25V |
| R666 R667 | 1-247-807-31 1-249-430-11 | CARBON 100 5% | MC 180 180 180 180 180 180 180 180 180 180 | N F | C1111 C1112 | 1-163-009-11 1-164-161-11 | | | 10% 10% | 50V 50V |
| DCC0 | 1-245-430-11 | CAMDUM 12K 3% | 1/41 | • | C1112 | 1-124-477-11 | | 47MF | 20% | 16V |

C1114

C1115

1-163-038-00 CERAMIC CHIP 0.1MF

1-124-477-11 ELECT

25V

16V

20%

47MF

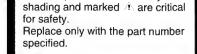
| | | | | | | | | | (| | |
|----------------|---|--------------------------|----------|-------------|---------|--------------|-----------------|----------|---------|----------------|--------|
| REF.NO. | PART NO. | DESCRIPTION | | REMARK | REF.NO. | PART NO. | DESCRIPTION | ON | | | REMARK |
| C1116 C1117 | 1-106-228-00 1-163-081-00 | | 10% | 100V 25V | | < FEF | RRITE BEAD > | | | | |
| C1118 | 1-163-113-00 | | 5% | 50V | FB1101 | 1-410-396-41 | FERRITE BEAD | INDUCTO | OR 0.4 | 5UH | |
| C1119 | 1-163-129-00 | | 5% | 50V | FB1102 | | FERRITE BEAD | | | | |
| C1120 | 1-163-193-00 | CERAMIC CHIP 330PF | 5% | 50V | FB1103 | | FERRITE BEAD | | | | |
| 01110 | | 02122120 01121 00011 | • • | | FB1104 | | FERRITE BEAD | | | | |
| C1121 | 1-163-113-00 | CERAMIC CHIP 68PF | 5% | 50V | FB1105 | | FERRITE BEAD | | | | |
| C1122 | 1-163-081-00 | | 3.0 | 25V | 151105 | 1 110 350 11 | I DIMITIO DILID | 11120010 | J11 011 | 3011 | |
| C1123 | 1-106-228-00 | | 10% | 100V | | < IC | ` | | | | |
| C1124 | 1-124-477-11 | ELECT 47MF | 20% | 16V | | \ 1C | | | | | |
| C1125 | 1-124-477-11 | | 20% | 16V | IC1101 | 8-759-511-88 | TC TDA9732 | | | | |
| CIIZS | 1-124-4//-11 | EDECI 4/ME | 20% | 104 | IC1102 | | IC SAA7282-ZI | D | | | |
| C1126 | 1-163-077-00 | CERAMIC CHIP 0.1MF | 10% | 25V | 101102 | 0-/33-104-20 | IC DAR/202-4 | • | | | |
| C1127 | | CERAMIC CHIP 0.1MF | 10% | 25V | | < CO1 | rr . | | | | |
| C1127 | 1-103-038-00 | | 20% | 16V | | < 001 | тп > | | | | |
| | | | 40% | | T 1101 | 1 400 405 00 | TATDUGEOD A | 77777 | | | |
| C1129 | | CERAMIC CHIP 0.1MF | 1.00. | 25V | L1101 | | INDUCTOR 4. | | | | |
| C1130 | 1-163-205-00 | CERAMIC CHIP 0.001MF | 10% | 50V | L1102 | | INDUCTOR 4.7 | | | | |
| 01101 | 1 160 050 00 | CERTIFIC CHAR O Adam | | C 0** | L1103 | | INDUCTOR 1M | | | | |
| C1131 | 1-163-059-00 | | | 50V | L1104 | 1-410-119-11 | | | | | |
| C1132 | 1-163-038-00 | | | 25V | L1105 | 1-408-411-00 | INDUCTOR 150 | JH (KV-) | K29720 | 1) | |
| C1133 | 1-124-907-11 | | 20% | 50V | | | | | | | |
| C1134 | | CERAMIC CHIP 0.001MF | 10% | 50V | | < TRA | ANSISTOR > | | | | |
| C1135 | 1-163-038-00 | CERAMIC CHIP 0.1MF | | 25V | | | | | | | |
| | | | | | Q1101 | | TRANSISTOR 25 | | | | |
| C1136 | 1-163-117-00 | | 5% | 50V | Q1102 | | TRANSISTOR 25 | | | | |
| C1137 | 1-163-038-00 | CERAMIC CHIP 0.1MF | | 25V | Q1103 | 8-729-920-74 | TRANSISTOR 25 | SC2412K- | -QR | | |
| C1138 | 1-163-105-00 | CERAMIC CHIP 33PF | 5% | 50V | Q1104 | 8-729-920-74 | TRANSISTOR 29 | SC2412K- | -QR | | |
| C1139 | 1-163-105-00 | CERAMIC CHIP 33PF | 5% | 50V | Q1105 | 8-729-920-74 | TRANSISTOR 28 | SC2412K- | -OR | | |
| C1140 | 1-163-117-00 | | 5% | 50V | ~ | | | | - | | |
| | | | | | 01106 | 8-729-920-74 | TRANSISTOR 29 | SC2412K- | -OR | | |
| C1141 | 1-163-205-00 | CERAMIC CHIP 0.001MF | 10% | 50V | Q1107 | | TRANSISTOR 25 | | | | |
| C1142 | | CERAMIC CHIP 0.0068MF | | 50V | 01108 | | TRANSISTOR 25 | | | | |
| C1143 | 1-163-003-11 | | 10% | 50V | ¥2270 | 0 100 100 10 | | | × | | |
| C1144 | 1-163-121-00 | | 5% | 50V | | < RES | SISTOR > | | | | |
| C1145 | 1-163-121-00 | | 5% | 50V | | \ 1\L |)10101(/ | | | | |
| 01143 | 1-103-121-00 | CEMANIC CHII 15011 | 3.0 | 301 | JR1101 | 1-216-296-91 | METAL GLAZE | 0 | 5% | 1/8W | |
| C1146 | 1-163-038-00 | CERAMIC CHIP 0.1MF | | 25V | UKIIUI | 1-210-230-31 | MEIAU GUADE | | (KV-X2 | | |
| C1147 | 1-124-477-11 | | 20% | 16V | JR1102 | 1_216_206_01 | METAL GLAZE | 0 ' | 5% | 1/8W | |
| C1147 | 1-164-161-11 | | 10% | 50V | JR1103 | | METAL GLAZE | 0 | 5% | 1/8W | |
| C1149 | | | 20% | | \$ | | | 0 | | 1/1 OW | |
| | 1-124-477-11 | | 20% | 16V | JR1104 | 1-210-293-91 | METAL GLAZE | U | 5% | T/IOM | |
| C1150 | 1-163-038-00 | CERAMIC CHIP 0.1MF | | 25V | D1101 | 1 216 100 00 | METAL GLAZE | 200 | F0. | 1 /17/7 | |
| 01151 | 1 162 020 00 | CERTALE CUER A 1VE | | 0.5** | R1101 | | | 390 | 5% | 1/8W | |
| C1151 | | CERAMIC CHIP 0.1MF | 0.00 | 25V | R1102 | 1-216-049-00 | | 1K | 5% | 1/1 OW | |
| C1152 | 1-124-477-11 | | 20% | 16V | R1103 | | METAL GLAZE | 1K | 5% | 1/1 OW | |
| C1153 | 1-163-087-00 | | 0.25PF | | R1104 | 1-216-041-00 | | 470 | 5% | 1/1 OW | |
| C1154 | 1-163-038-00 | | | 25V | R1105 | 1-216-005-00 | METAL GLAZE | 15 | 5% | 1/1 O W | |
| C1155 | 1-124-477-11 | ELECT 47MF | 20% | 16V | - 4444 | | | | | | |
| | | | | | R1106 | | METAL GLAZE | | 5% | 1/8W | |
| C1156 | | CERAMIC CHIP 0.001MF | 10% | 50V | R1107 | | METAL GLAZE | | 5% | 1/1 OW | |
| C1157 | | CERAMIC CHIP 0.001MF | 10% | 50V | R1108 | 1-216-063-00 | METAL GLAZE | 3.9K | 5% | 1/1 O W | |
| C1158 | | CERAMIC CHIP 0.1MF | | 25V | R1109 | | METAL GLAZE | 1.5K | 5% | 1/8 W | |
| C1159 | 1-163-243-11 | CERAMIC CHIP 47PF | 5% | 50V | R1110 | 1-216-196-00 | METAL GLAZE | 820 | 5% | 1/8 W | |
| | | | (KV-) | X2972U) | | | | | | | |
| | | | | | R1111 | | METAL GLAZE | | 5% | 1/1 O W | |
| | < FI | LTER > | | | R1112 | | METAL GLAZE | 1.2K | 5% | 1/1 OW | |
| | | | | | R1113 | 1-216-001-00 | METAL GLAZE | 10 | 5% | 1/1 OW | |
| BP1101 | 1-236-238-12 | FILTER, BAND PASS (KV- | -X2972U) | | R1114 | 1-216-105-00 | METAL GLAZE | 220K | 5% | 1/1 OW | |
| | | FILTER, BAND PASS (KV- | | | R1115 | | METAL GLAZE | 1M | 5% | 1/1 OW | |
| CF1101 | | TRAP, CERAMIC (6.0MHZ) | | /2U) | | , | | - | | | |
| CF1102 | | TRAP, CERAMIC (5.5MHZ) | | | R1116 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/1 O W | |
| | | (3.33332) | , | | R1117 | | METAL GLAZE | 100K | | 1/10W | |
| | < 00 | NNECTOR > | | | R1118 | | METAL GLAZE | 100K | | 1/10W | |
| | ` | | | | R1119 | | METAL GLAZE | | 5% | 1/10W | |
| CN0201 | 1-695-300-11 | CONNECTOR, BOARD TO BO | OARD 20P | | R1120 | | METAL GLAZE | | 5% | 1/10 | |
| | - 030-300-TT | . COMMECTORY DUMIN TO BU | AVE | | 11120 | | | 2 / IX | 3.0 | -/ V#* | |
| | < DI | ODE > | | | R1121 | 1-216-081-00 | METAL GLAZE | 22K | 5% | 1/1 O W | |
| | | | | | R1122 | | METAL GLAZE | | 5% | 1/10 | |
| D1101 | 8-719-914-44 | DIODE DAP202K | | | R1123 | | METAL GLAZE | | 5% | 1/10 | |
| D1102 | | DIODE 1SV217-TPH3 | | | R1124 | | METAL GLAZE | | 5% | 1/10W | |
| D1103 | _ | DIODE 1SV214 | | | R1125 | | METAL GLAZE | 100K | | 1/10W | |
| | - /13-020-/1 | . DIODU INTELE | | | 11123 | 1 210 031-00 | THE CHARLE | TOOK | J-0 | -1111 | |
| | | | | | R1126 | 1-216-218-00 | METAL GLAZE | 6.8K | 5% | 1/10 | |
| | | | | | 1,2240 | 010 00 | THE CHARLE | 0 1 01/ | - 0 | -719 | |

| A1(| KV-X2972U) KV-X2973E) | | Α |
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|--------|---|--|--|--|---|--------|--------------------------------------|--|--|---|---------------------------------|---------------------------------|
| | REF.NO. | PART NO. | DESCRIPTION | | RE | MARK | REF.NO. | PART NO. | DESCRIPTI | ON | | REMARK |
|] | R1127 R1128 R1129 R1130 | 1-216-097-00 1-216-089-91 1-216-089-91 1-216-246-91 | METAL GLAZE 4 METAL GLAZE 4 | 00K 5% 7K 5% 7K 5% 00K 5% | 1/10W 1/10W 1/10W 1/8W | | C207 C208 C209 C210 | 1-164-005-11 | FILM CERAMIC CHIP CERAMIC CHIP | 0.47MF | 2% | 100V 25V 25V 25V |
|] | R1131 R1132 R1133 R1134 R1135 | 1-216-218-00 1-216-097-00 1-216-089-91 1-216-212-00 1-216-081-00 | METAL GLAZE 1 METAL GLAZE 4 METAL GLAZE 3 | .8K 5% 00K 5% 7K 5% .9K 5% 2K 5% | 1/8W 1/10W 1/10W 1/8W 1/10W | | C213 C214 C215 C216 C217 | 1-163-023-00 1-163-023-00 1-163-809-11 1-163-809-11 1-124-925-11 | CERAMIC CHIP | 0.015MF 0.047MF | 10% 10% 10% 10% 20% | 50V 50V 25V 25V 50V |
| 1 | R1136 R1137 R1138 R1139 R1140 | 1-216-081-00 1-216-095-00 1-216-097-00 1-216-005-00 1-216-061-00 | METAL GLAZE 8 METAL GLAZE 1 METAL GLAZE 1 | 2K 5% 2K 5% 00K 5% 5 5% .3K 5% | 1/10W 1/10W 1/10W 1/10W 1/10W | | C218 C219 C220 C221 C222 | 1-124-925-11 1-163-011-11 1-163-011-11 1-124-925-11 1-124-925-11 | CERAMIC CHIP CERAMIC CHIP ELECT | | 20% 10% 10% 20% 20% | 50V 50V 50V 50V 50V |
| I I | R1141 R1142 R1143 R1144 R1145 | 1-216-061-00 1-216-033-00 1-216-049-00 1-216-049-00 1-216-001-00 | METAL GLAZE 2: METAL GLAZE 1: METAL GLAZE 1: | K 5% | 1/10W 1/10W 1/10W 1/10W 1/10W | | C223 C224 C225 C226 C227 | 1-136-177-00 1-136-177-00 1-164-182-11 1-163-007-11 1-124-907-11 | FILM CERAMIC CHIP CERAMIC CHIP | | 5% 5% 10% 10% 20% | 50V 50V 50V 50V 50V |
| H | R1146 R1147 R1148 R1149 R1150 | 1-216-049-00 1-216-045-00 1-216-049-00 1-216-001-00 1-216-045-00 | METAL GLAZE 6 METAL GLAZE 1 METAL GLAZE 1 | 80 5% K 5% | 1/10W 1/10W 1/10W 1/10W 1/10W | | C228 C229 C230 C231 C232 | 1-124-907-11 1-124-478-11 1-124-478-11 1-164-346-11 1-163-009-11 | ELECT ELECT CERAMIC CHIP | | 20% 20% 20% 10% | 50V 25V 25V 16V 50V |
| F | R1151 R1152 R1153 R1154 | 1-216-049-00 1-216-049-00 1-216-049-00 1-216-041-00 | METAL GLAZE 1: METAL GLAZE 4: | K 5% | 1/10W 1/10W 1/10W 1/10W | | C233 C234 C235 C236 C237 | 1-163-009-11 1-164-161-11 1-130-772-00 1-124-618-11 1-124-618-11 | CERAMIC CHIP FILM ELECT | | 10% 10% 5% 20% 20% | 50V 50V 63V 35V 35V |
| | (1101 (1102 | 1-579-689-21 1-579-282-21 | VIBRATOR, CRYST. VIBRATOR, CRYST. VIBRATOR, CRYST. | AL (KV-X2 | | | C238 C239 C240 C241 C242 | 1-164-161-11 1-130-772-00 1-124-916-11 1-124-916-11 1-124-903-11 | FILM ELECT ELECT | 0.0022MF 0.22MF 22MF 22MF 1MF | 10% 5% 20% 20% 20% | 50V 63V 50V 50V 50V |
| * | ****** | ****** | ******* | ****** | ****** | **** | | | | | 200 | 301 |
| | | | A BOARD, COMPLE' | ** X2971 TE (KV-X2 | K) | D, | C244 C248 C249 C251 | 1-164-232-11 1-163-185-00 1-163-129-00 1-126-320-11 | CERAMIC CHIP CERAMIC CHIP ELECT | 150PF 330PF 10MF | 10% 5% 5% 20% | 50V 50V 50V 16V |
| | | *A-1632-179-A | A BOARD, COMPLE | | 973E) | ĺ | C254 | 1-163-133-00 | CERAMIC CHIP | 470PF | 5% | 50V |
| | | *A-1632-180-A | A BOARD, COMPLE | ** TE (KV-X2 | | | C255 C256 C257 C299 | 1-163-133-00 1-163-133-00 1-163-133-00 1-164-337-11 | CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP | 470PF 470PF 2.2MF | 5% 5% 5% | 50V 50V 50V 16V |
| _ | | | | | | | C301 | 1-163-038-00 | CERAMIC CHIP | | | 25V |
| C | 071 072 074 102 103 | 1-126-108-11 1-124-120-11 1-163-001-11 1-126-103-11 1-163-031-11 | ELECT 224 CERAMIC CHIP 224 ELECT 47 | OMF OPF OMF | 20% 16° 20% 16° 10% 50° 20% 16° 50° | Λ Λ | C302 C303 C304 C305 C306 | 1-163-038-00 1-164-337-11 1-164-004-11 1-163-096-00 1-163-097-00 | CERAMIC CHIP | 2.2MF 0.1MF 13PF | 10% 5% 5% | 25V 16V 25V 50V 50V |
| CCC | 104 105 106 110 120 | 1-124-477-11 1-124-916-11 1-124-927-11 1-124-478-11 1-163-031-11 | ELECT 221 ELECT 4. | MF 7MF OMF | 20% 16° 20% 50° 20% 50° 20% 25° 50° | V V | C307 C308 C309 C310 C311 | | CERAMIC CHIP | 0.047MF 0.1MF 0.1MF | 10% 10% 10% | 50V 25V 25V 25V 25V |
| C: | 201 202 203 204 | 1-130-489-00 1-130-489-00 1-164-005-11 | | 033MF 033MF 47MF | 5% 50° 5% 50° 25° | A A | C312 C313 C314 | 1-124-477-11 1-163-077-91 1-163-038-00 | CERAMIC CHIP CERAMIC CHIP | 0.1MF | 20% | 16V 50V 25V |
| | 205 | 1-164-005-11 | | | 25° 20% 50° | 1 | C315 C316 | 1-124-477-11 1-163-077-91 | | 47MF 0.1MF | 20% | 16V 50V |
| C | 206 | 1-164-161-11 | CERAMIC CHIP 0.0 | 0022MF | 10% 50 | v | C317 | 1-163-103-00 | | | 5% | 50V |
| | | | | | | | | | | | | |



| REF.NO. | PART NO. | DESCRIPTION | | REMARK | REF.NO. | PART NO. | DESCRIPTION | DN | | REMARK |
|--------------|--------------|-----------------------------------|------------------|-------------|------------------|--------------------------------|----------------|--------------|---------------|------------|
| C318 | 1_163_103_00 | CERAMIC CHIP 2 | 7PF 5% | 50V | C592 | 1_163_017_00 | CERAMIC CHIP | 0.0047MF | 10% | 50V |
| C319 | 1-163-103-00 | | | 25V | C592 | | CERAMIC CHIP | | 10% | 50V 50V |
| C320 | 1-124-477-11 | | 7MF 20% | 16V | C595 | 1-163-109-00 | | | 5% | 50V |
| C321 | 1-163-038-00 | CERAMIC CHIP 0 | | 25V | C599 | | CERAMIC CHIP | | 10% | 50V |
| 0321 | 1 100 050 00 | CHARMIC CHII O | . 1111 | 251 | 6333 | 1 101 252 11 | Chamié cum | 0.01111 | 10.0 | 201 |
| C322 | 1-124-916-11 | ELECT 22 | 2MF 20% | 50V | C644 | 1-124-916-11 | ELECT | 22MF | 20% | 50V |
| C323 | 1-163-135-00 | CERAMIC CHIP 5 | 60PF 5% | 50V | C681 | 1-124-478-11 | ELECT | 100MF | 20% | 25V |
| C324 | 1-124-477-11 | | 7MF 20% | 16V | C682 | 1-126-516-11 | ELECT | 120MF | 20% | 16V |
| C325 | | CERAMIC CHIP 5 | | 50V | C683 | 1-124-478-11 | | 100MF | 20% | 25V |
| C341 | 1-163-077-00 | CERAMIC CHIP 0 | .1MF 10% | 25V | C685 | 1-124-478-11 | ELECT | 100MF | 20% | 25V |
| C342 | 1 162 077 00 | CERAMIC CHIP 0 | .1MF 10% | 25V | C686 | 1 163 030 00 | CERAMIC CHIP | 0.125 | | 25V |
| C342 | | CERAMIC CHIP 0 | | 25V 25V | C687 | 1-124-916-11 | | 22MF | 20% | 50V |
| C344 | | CERAMIC CHIP 1 | | 16V | C007 | 1-124-310-11 | PHECI | 22FIF | 200 | 307 |
| C345 | | CERAMIC CHIP II | | 16V | | ודק , | TER > | | | |
| C346 | 1-124-925-11 | | .2MF 20% | 50V | | (111 | ILEK > | | | |
| 0310 | 1 121 725 11 | | | 301 | CF581 | 1-577-611-11 | OSCILLATOR, C | CERAMIC | | |
| C347 | 1-162-638-11 | CERAMIC CHIP 1 | MF | 16V | | | | | | |
| C348 | 1-164-346-11 | CERAMIC CHIP 1 | MF | 16V | | < CON | NECTOR > | | | |
| C349 | | CERAMIC CHIP 1 | | 16V | | | | | | |
| C350 | 1-124-907-11 | | OMF 20% | 50V | CN0001 | *1-568-880-51 | PIN, CONNECTO |)R 5P | | |
| C351 | 1-124-443-00 | ELECT 1 | 00MF 20% | 10V | CN0101 | 1-695-297-11 | CONNECTOR, BOA | | | |
| 63.53 | 1 161 016 11 | anniura aura 1 | s.em | 1 (** | G110100 | 1 564 514 44 | | 7-X2973E,X29 | 72 U) | |
| C353 | | CERAMIC CHIP 1 | | 16V 16V | CN0103 | | PLUG, CONNECT | | | |
| C354 | | CERAMIC CHIP 1 | | | CN0104 | | PLUG, CONNECT | | | |
| C355 C356 | | CERAMIC CHIP 11 CERAMIC CHIP 0 | | 16V 16V | CN0105 CN0106 | *1-568-880-51 *1-568-880-51 | | | | |
| C357 | | CERAMIC CHIP 0 | | 25V | CNUIUO | -1-200-000-21 | PIN, CONNECTO | ok or | | |
| 6337 | 1-104-233-11 | CERAMIC CHIF U | . ZZPIT 10°0 | 234 | CN0107 | *1-568-879-11 | DIN CONNECTO | D AD | | |
| C358 | 1-164-299-11 | CERAMIC CHIP 0 | .22MF 10% | 25V | CN0107 | *1-568-878-51 | | | | |
| C359 | 1-124-907-11 | | OMF 20% | 50V | CN0109 | | CONNECTOR, BO | | n 50P | |
| C360 | | CERAMIC CHIP 3 | | 50V | CN0110 | *1-568-882-51 | | | D 34L | |
| C361 | | CERAMIC CHIP 2 | | 50V | CN0113 | | CONNECTOR, BO | | D 40P | |
| C362 | 1-130-772-00 | | .22MF 5% | 63V | | | | | | |
| | | | | | CN0119 | *1-568-879-11 | PIN, CONNECTO | R 4P | | |
| C363 | 1-124-907-11 | | OMF 20% | 50V | CN5108 | *1-564-513-11 | PLUG, CONNECT | OR 10P | | |
| C365 | 1-124-120-11 | | 20MF 20% | 16V | | | | | | |
| C366 | 1-124-903-11 | | MF 20% | 50V | | < DIC | DE > | | | |
| C369 | | CERAMIC CHIP 1 | | 50V | -060 | 0 740 041 14 | | | | |
| C401 | 1-164-005-11 | CERAMIC CHIP 0 | .4/MF | 16V | D068 D069 | | DIODE DAP202K | | | |
| C402 | 1-124-034-51 | क्रा.क्रटण ३ | 3MF 20% | 16V | D003 | | DIODE RD5.6ES | | | |
| C403 | | CERAMIC CHIP 0 | | 16V | D071 | | DIODE RD5.6ES | | | |
| C411 | | CERAMIC CHIP 0 | | 25V | D075 | | DIODE DAN202K | | | |
| C412 | | CERAMIC CHIP 0 | | 25V | 2073 | 0 717 711 15 | DIODE DIMECEL | • | | |
| C421 | 1-124-477-11 | | 7MF 20% | 16V | D077 | 8-719-914-43 | DIODE DAN202K | | | |
| | | | | | D078 | | DIODE RD5.6ES | | | |
| C422 | 1-124-477-11 | ELECT 4 | 7MF 20% | 16V | D079 | | DIODE RD5.6ES | | | |
| C423 | 1-101-004-00 | CERAMIC 0 | .01MF | 50V | D101 | 8-719-982-27 | DIODE MTZJ-33 | C | | |
| C424 | | CERAMIC CHIP 3 | | 50V | D206 | 8-719-914-43 | DIODE DAN202K | (| | |
| C425 | | CERAMIC CHIP 3 | | 50V | -00- | 0 740 004 00 | | | | |
| C426 | 1-124-477-11 | ELECT 4 | 7MF 20% | 16V | D207 | 8-719-921-89 | | C | | |
| C427 | 1 164 346 44 | ODDANIC OUTS 4 | WE. | 1637 | D208 | | DIODE 1SS133 | | | |
| C427 | 1-164-346-11 | CERAMIC CHIP 1 | Mr Mr | 16V 16V | D209 D210 | | DIODE 188133 | | | |
| C429 | | | | | | | DIODE 1SS133 | | | |
| C574 | 1-124-119-00 | CERAMIC CHIP 1 | | 16V 50V | D211 | 0-/19-901-33 | DIODE 1SS133 | | | |
| C575 | 1-164-299-11 | | | 25V | D212 | 8-719-901-33 | DIODE 1SS133 | | | |
| 00.0 | 1 104-277-11 | CHAMIC CHII 0 | .2211 100 | 231 | D213 | | DIODE DAN202K | | | |
| C576 | 1-163-075-00 | CERAMIC CHIP 0 | .047MF 10% | 25 V | D214 | | DIODE DA204K | | | |
| C581 | | CERAMIC CHIP 0 | | 50V | D301 | 8-719-914-43 | | | | |
| C582 | 1-124-916-11 | | 2MF 20% | 50V | D304 | 8-719-109-89 | | | | |
| C583 | 1-163-133-00 | | | 50V | | | | | | |
| C585 | 1-163-009-11 | CERAMIC CHIP 0 | .001MF 10% | 50V | D305 | 8-719-914-43 | | | | |
| 0506 | 1 440 0-0 | GED31120 C | 000177 100 | F 0 ** | D306 | 8-719-914-43 | DIODE DAN202K | | | |
| C586 C587 | | CERAMIC CHIP 0 | | 50V | D307 | | DIODE DAN202K | | | |
| C587 | 1-124-903-11 | | MF 20% | 50V | D308 | 8-719-914-42 | DIODE DA204K | | | |
| C589 | 1-164-346-11 | CERAMIC CHIP 1 | .mr .00MF 20% | 16V 25V | D311 | 8-719-914-42 | DIODE DA204K | | | |
| C599 | 1-124-478-11 | | 2MF 20% | 25V 50V | D312 | 8-710-011-11 | DIODE DAP202K | , | | |
| | - 121-110-11 | <u> </u> | 20.0 | 301 | D312 | | DIODE DAP202K | | | |
| C591 | 1-124-925-11 | ELECT 2 | .2MF 20% | 50V | D314 | | DIODE DAN202K | | | |
| | /00 11 | | | ••• | | | | | | |





| REF.NO. | | DESCRIPTION | REF.NO. | PART NO. | DESCRIPTION | | REMAR |
|---|--|---|--|--|--|--|--|
| D381 D401 | 8-719-110-03 8-719-921-69 | DIODE RD7.5ESB2 DIODE MTZJ9.1 | Q206 | 8-729-216-22 | TRANSISTOR 2SA | .1162-G | |
| D403 D405 D406 D407 D571 | 8-719-921-69 8-719-921-69 8-719-921-69 8-719-921-69 8-719-914-42 | DIODE RD7.5ESB2 DIODE MTZJ9.1 DIODE MTZJ9.1 DIODE MTZJ9.1 DIODE MTZJ9.1 DIODE MTZJ9.1 DIODE MTZJ9.1 DIODE MTZJ9.1 | Q207 Q209 Q210 Q303 Q304 | 8-729-920-74 8-729-920-74 8-729-216-22 | TRANSISTOR 2SC TRANSISTOR 2SC TRANSISTOR 2SC TRANSISTOR DTC | 2412K-QR 2412K-QR 1162-G | |
| D681 D683 | 8-719-921-75 8-719-914-44 | DIODE MTZN-10B DIODE DAP202K | Q306 Q308 Q309 Q311 | 8-729-216-22 8-729-931-02 8-729-901-06 | TRANSISTOR 2SA TRANSISTOR 2SA TRANSISTOR 2SO TRANSISTOR DTA | .1162-G :2413KQ :144EK | |
| | < IC | > | Q312 | | TRANSISTOR DTC | | |
| IC072 IC201 | 8-759-184-27 8-759-073-30 (K X 8-759-073-31 | DIODE DAZ04K DIODE MTZN-10B DIODE DAP202K > IC ST24C16CB1 IC TDA6612 V-X2971A, X2971B, X2971D, 2973E, X2971K) IC TDA6622 (KV-X2972U) | Q313 Q314 Q315 Q316 Q317 | 8-729-920-74 | TRANSISTOR 2SA TRANSISTOR 2SO TRANSISTOR DTO TRANSISTOR 2SO | 2412K-QR 2412K-QR 144EK | |
| IC202 IC251 IC261 | 8-759-502-21 8-759-072-99 8-759-072-99 | IC TDA2822M IC TDA2052 IC TDA2052 | Q401 Q402 Q403 Q581 | 8-729-920-74 8-729-920-74 8-729-920-74 | TRANSISTOR 2SC TRANSISTOR 2SC TRANSISTOR 2SC TRANSISTOR 2SC | 2412K-QR 2412K-QR 2412K-QR | |
| IC301 IC302 IC304 IC401 IC402 | 8-759-189-90 8-759-084-91 8-752-056-54 8-752-068-46 8-759-073-00 | IC TDA6622 (KV-X2972U) IC TDA2822M IC TDA2052 IC TDA2052 IC TDA9145/N2B IC TDA4661/V2 IC CXA1587S IC CXA1855S IC TEA2114 IC TDA8138A IC NJM78M09FA IC TEA7605 BLOCK > IF BLOCK (IFH-389) (KV-X2971D, X2973E, X2971K, X2971A) | Q582 Q583 Q610 Q681 Q682 | 8-729-920-74 8-729-140-97 8-729-109-53 | TRANSISTOR 2SA TRANSISTOR 2SC TRANSISTOR 2SD TRANSISTOR DTC | 2412K-QR 734-34 795A-P | |
| IC681 IC684 IC685 | 8-759-072-98 8-759-701-59 8-759-510-52 | IC TDA8138A IC NJM78M09FA IC TEA7605 | Q002 | < RES | ISTOR > | III | |
| | < IF | BLOCK > | JR102 JR104 | 1-216-295-00 | METAL GLAZE | 0 5% 0 5% | 1/10W 1/10W |
| IFB101 | 1-466-733-11 | IF BLOCK (IFH-389) (KV-X2971D, X2973E, X2971K, | JR107 JR109 JR110 | | METAL GLAZE | 0 5% 0 5% 0 5% | 1/10W 1/10W 1/10W |
| | 1-466-734-11 | IF BLOCK (IFH-395) | JR111 | 1-216-295-00 | | 0 5% 0 5% | 1/10W 1/10W |
| | 1-466-735-11 | X2971A) IF BLOCK (IFH-395) (KV-X2972U) IF BLOCK (IFH-389F) (KV-X2971B) | JR113 JR114 | 1-216-295-00 | METAL GLAZE | 0 5% 0 5% | 1/10W 1/10W |
| | < COI | L > | JR115 | 1-216-295-00 | | 0 5% | 1/10W |
| L101 L102 L201 L307 L309 | 1-412-546-41 1-408-413-00 1-407-500-00 1-408-405-00 1-408-411-00 | INDUCTOR 22UH INDUCTOR 4.7MMH INDUCTOR 4.7UH | JR116 JR117 JR118 JR119 JR120 | 1-216-295-00 1-216-295-00 1-216-295-00 1-216-295-00 1-216-295-00 | METAL GLAZE METAL GLAZE METAL GLAZE | 0 5% 0 5% 0 5% 0 5% 0 5% | 1/10W 1/10W 1/10W 1/10W 1/10W |
| L575 L611 L681 | 1-408-397-00 1-412-539-41 1-412-539-41 | INDUCTOR 150UH INDUCTOR 150UH | JR121 JR122 JR123 JR125 | 1-216-295-00 1-216-295-00 1-216-295-00 1-216-295-00 | METAL GLAZE METAL GLAZE METAL GLAZE | 0 5% 0 5% 0 5% 0 5% | 1/10W 1/10W 1/10W 1/10W |
| | | LINK > | JR126 | 1-216-295-00 | | 0 5% | 1/10W |
| | , mp3 | LINK, IC 0.4A LINK, IC 0.4A NSISTOR > | JR127 JR128 JR129 JR130 | 1-216-295-00 1-216-295-00 1-216-295-00 1-216-295-00 | METAL GLAZE METAL GLAZE METAL GLAZE | 0 5% 0 5% 0 5% 0 5% | 1/10W 1/10W 1/10W 1/10W |
| Q071 Q101 Q102 Q103 Q201 | 8-729-901-05 8-729-216-22 8-729-901-00 8-729-900-53 8-729-920-74 | TRANSISTOR DTA124EK TRANSISTOR 2SA1162-G TRANSISTOR DTC124EK TRANSISTOR DTC114EK TRANSISTOR 2SC2412K-QR TRANSISTOR 2SC2412K-QR TRANSISTOR 2SC2412K-QR TRANSISTOR 2SA1162-G TRANSISTOR 2SA1162-G | JR131 JR132 JR133 JR134 JR135 JR136 | 1-216-295-00 1-216-295-00 1-216-295-00 1-216-295-00 1-216-295-00 1-216-295-00 | METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE | 0 5% 0 5% 0 5% 0 5% 0 5% 0 5% | 1/10W 1/10W 1/10W 1/10W 1/10W 1/10W |
| Q202 Q203 Q204 Q205 | 8-729-920-74 8-729-920-74 8-729-216-22 8-729-216-22 | TRANSISTOR 2SC2412K-QR TRANSISTOR 2SC2412K-QR TRANSISTOR 2SA1162-G TRANSISTOR 2SA1162-G | JR137 JR138 JR139 | 1-216-295-00 1-216-296-00 1-216-295-00 | METAL GLAZE | 0 5% 0 5% 0 5% | 1/10W 1/8W 1/10W |



| REF.NO. | PART NO. | DESCRIPTIO | N | | REMARK | REF.NO. | PART NO. | DESCRIPTIO | N | | REMARK |
|----------------|------------------------------|----------------------------|---|----------|----------------|----------------|------------------------------|----------------------------|--------------|----------|------------------|
| JR140 JR141 | 1-216-295-00 1-216-295-00 | METAL GLAZE METAL GLAZE | 0 | 5% 5% | 1/10W 1/10W | JR254 JR255 | 1-216-296-00 1-216-296-00 | METAL GLAZE METAL GLAZE | 0 | 5% 5% | 1/8W 1/8W |
| JR142 | 1-216-295-00 | METAL GLAZE | 0 | 5% | 1/10W | JR257 | 1-216-296-00 | METAL GLAZE | 0 | 5% | 1/8W |
| JR143 | 1-216-295-00 | METAL GLAZE | Ŏ | 5% | 1/10W | JR272 | 1-216-295-00 | METAL GLAZE | Ŏ | 5% | 1/10W |
| JR144 | 1-216-295-00 | METAL GLAZE | Ö | 5% | 1/10W | OILE / E | 1 110 133 00 | HELLIE CHILD | · | | 2/2011 |
| JR146 | 1-216-295-00 | METAL GLAZE | Õ | 5% | 1/10W | R071 | 1-216-041-00 | METAL GLAZE | 470 | 5% | 1/10W |
| JR149 | 1-216-295-00 | METAL GLAZE | 0 | 5% | 1/10W | R072 | 1-216-033-00 | METAL GLAZE | 220 | 5% | 1/10W |
| OWIAN | 1 210 255 00 | Moind Omide | • | • | 1/1011 | R073 | 1-216-033-00 | METAL GLAZE | 220 | 5% | 1/10W |
| JR150 | 1-216-295-00 | METAL GLAZE | 0 | 5% | 1/10W | R074 | 1-216-198-91 | | 1K | 5% | 1/8W |
| JR151 | 1-216-295-00 | METAL GLAZE | 0 | 5% | 1/10W | R076 | 1-216-057-00 | METAL GLAZE | 2.2K | 5% | 1/10W |
| JR152 | 1-216-295-00 | METAL GLAZE | 0 | 5% | 1/10W | | | | | | ., |
| JR201 | 1-216-296-00 | METAL GLAZE | 0 | 5% | 1/8W | R077 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W |
| JR202 | 1-216-296-00 | METAL GLAZE | 0 | 5% | 1/8W | R101 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W |
| | | | | | | R102 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W |
| JR203 | 1-216-296-00 | METAL GLAZE | 0 | 5% | 1/8W | R103 | 1-216-059-00 | METAL GLAZE | 2.7K | 5% | 1/10W |
| JR204 | 1-216-296-00 | METAL GLAZE | 0 | 5% | 1/8W | R105 | 1-216-073-00 | METAL GLAZE | 10K | 5% | 1/10W |
| JR205 | 1-216-296-00 | METAL GLAZE | 0 | 5% | 1/8W | | | | | | |
| JR206 | 1-216-296-00 | METAL GLAZE | 0 | 5% | 1/8W | R108 | 1-216-230-00 | METAL GLAZE | 22K | 5% | 1/8W |
| JR207 | 1-216-296-00 | METAL GLAZE | 0 | 5% | 1/8W | R115 | 1-216-210-00 | METAL GLAZE | 3.3K | 5% | 1/8W |
| | | | | | | R201 | 1-216-653-11 | | 1.2K | | 1/10W |
| JR208 | 1-216-296-00 | METAL GLAZE | 0 | 5% | 1/8W | R202 | 1-216-653-11 | METAL CHIP | 1.2K | | 1/10W |
| JR209 | 1-216-296-00 | | 0 | 5% | 1/8W | R203 | 1-216-067-00 | METAL GLAZE | 5.6K | 5% | 1/10W |
| JR210 | 1-216-296-00 | METAL GLAZE | 0 | 5% | 1/8W | | 4 046 004 00 | | | F0 | 4 / 4 0 - 4 |
| JR211 | 1-216-296-00 | | 0 | 5% | 1/8W | R204 | 1-216-091-00 | | 56K | 5% | 1/10W |
| JR212 | 1-216-296-00 | METAL GLAZE | 0 | 5% | 1/8W | R205 | 1-216-071-00 | | 8.2K | 5% | 1/1 OW |
| 77012 | 1 010 000 00 | 100m11 01100 | 0 | F0. | 1 /00 | R206 | 1-216-071-00 | | 8.2K | 5% | 1/1 OW |
| JR213 | 1-216-296-00 | | 0 | 5% | 1/8W | R207 R208 | 1-216-057-00 1-216-057-00 | METAL GLAZE | 2.2K 2.2K | 5% 5% | 1/1 OW |
| JR214 JR215 | 1-216-296-00 1-216-296-00 | METAL GLAZE | 0 | 5% 5% | 1/8W 1/8W | K200 | 1-210-037-00 | METAL GLAZE | 4.4N | 2% | 1/1 OW |
| JR216 | 1-216-296-00 | | 0 | 5% | 1/8W | R209 | 1-249-377-11 | CARBON | 0.47 | 5% | 1/4W F |
| JR217 | 1-216-296-00 | METAL GLAZE | 0 | 5% | 1/8W | R210 | 1-247-734-11 | CARBON | 39 | 5% | 1/2W |
| UKEI, | 1 210-230-00 | MILIAU GUADE | v | J.0 | 1/011 | R211 | 1-247-734-11 | | 39 | 5% | 1/2W |
| JR218 | 1-216-296-00 | METAL GLAZE | 0 | 5% | 1/8W | R212 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/1 OW |
| JR219 | 1-216-296-00 | | Ö | 5% | 1/8W | R213 | 1-216-073-00 | | 10K | 5% | 1/1 OW |
| JR220 | 1-216-296-00 | | 0 | 5% | 1/8W | | | - | | | |
| JR221 | 1-216-296-00 | | 0 | 5% | 1/8W | R214 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/1 OW |
| JR222 | 1-216-296-00 | METAL GLAZE | 0 | 5% | 1/8W | R215 | 1-216-073-00 | METAL GLAZE | 10K | 5% | 1/1 OW |
| | | | | | | R216 | 1-216-049-00 | | 1K | 5% | 1/1 OW |
| JR223 | 1-216-296-00 | | 0 | 5% | 1/8W | R217 | 1-216-045-00 | METAL GLAZE | 680 | 5% | 1/1 OW |
| JR224 | 1-216-296-00 | | 0 | 5% | 1/8W | R218 | 1-216-081-00 | METAL GLAZE | 22K | 5% | 1/1 OW |
| JR225 | 1-216-296-00 | | 0 | 5% | 1/8W | | | | | | 4.4 |
| JR226 | 1-216-296-00 | | 0 | 5% | 1/8W | R221 | 1-212-849-00 | FUSIBLE | 4.7 | 5% | 1/4W F |
| JR227 | 1-216-296-00 | METAL GLAZE | 0 | 5% | 1/8W | R222 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/1 OW |
| JR228 | 1 216 206 00 | WEEKL OF FEE | 0 | 5% | 1/8W | R223 R224 | 1-216-045-00 1-249-433-11 | | 680 22K | 5% 5% | 1/1 OW 1/4 W |
| JR229 | 1-216-296-00 1-216-296-00 | | 0 | 5% 5% | 1/8W | R225 | 1-212-849-00 | CARBON FUSIBLE | 4.7 | 5% | 1/4W F |
| JR230 | 1-216-296-00 | | 0 | 5% | 1/8W | N22J | 1-212-045-00 | LOSIDER | 4.7 | 20 | TAME T |
| JR231 | | METAL GLAZE | 0 | 5% | 1/8W | R226 | 1-249-412-11 | CARBON | 390 | 5% | 1/4W |
| JR232 | 1-216-296-00 | | 0 | 5% | 1/8W | R227 | 1-216-081-00 | | 22K | 5% | 1/1 OW |
| | _ 110 200 00 | 02 | • | - 0 | _, -, | R228 | 1-216-081-00 | | 22K | 5% | 1/1 OW |
| JR233 | 1-216-296-00 | METAL GLAZE | 0 | 5% | 1/8W | R229 | 1-216-039-00 | | 390 | 5% | 1/1 OW |
| JR234 | 1-216-296-00 | METAL GLAZE | 0 | 5% | 1/8W | R230 | 1-216-246-91 | | 100K | | 1/8W |
| JR235 | | METAL GLAZE | 0 | 5% | 1/8W | | | | | | |
| JR236 | 1-216-296-00 | METAL GLAZE | 0 | 5% | 1/8W | R231 | 1-216-097-00 | | | 5% | 1/1 OW |
| JR237 | 1-216-296-00 | METAL GLAZE | 0 | 5% | 1/8W | R232 | 1-216-081-00 | | 22K | 5% | 1/1 OW |
| | | | | | 4.14 | R233 | 1-216-071-00 | | 8.2K | | 1/1 OW |
| JR238 | | METAL GLAZE | 0 | 5% | 1/8W | R234 | 1-216-077-00 | | 15K | 5% | 1/1 OW |
| JR239 | | METAL GLAZE | 0 | 5% | 1/8W | R235 | 1-216-073-00 | METAL GLAZE | 10K | 5% | 1/1 OW |
| JR240 | | METAL GLAZE | 0 | 5% | 1/8W | D226 | 1 01/ 001 00 | MEMBER OFFE | 00** | F0. | 1/1 OW |
| JR241 | | METAL GLAZE | 0 | 5% | 1/8W | R236 | 1-216-081-00 | | 22K | 5% E% | 1/1 OW 1/1 OW |
| JR242 | 1-216-296-00 | METAL GLAZE | 0 | 5% | 1/8W | R237 R238 | 1-216-025-00 | | 100 100 | 5% 5% | 1/1 OW 1/1 OW |
| JR243 | 1_216_205 00 | METAL GLAZE | 0 | 5% | 1/10W | R238 R241 | 1-216-025-00 1-216-065-00 | | 4.7K | | 1/1 OW |
| JR245 | | METAL GLAZE | 0 | 5% 5% | 1/10W 1/8W | R241 R242 | 1-216-065-00 | | 4.7K | | 1/8 W |
| JR247 | | METAL GLAZE | 0 | 5% | 1/8W | N247 | 1-710-714-00 | MEINI GHADE | 7./1 | 20 | -0 -1 |
| JR248 | | METAL GLAZE | 0 | 5% | 1/8W | R244 | 1-216-069-00 | METAL GLAZE | 6.8K | 5% | 1/1 OW |
| JR250 | | METAL GLAZE | 0 | 5% | 1/8W | R245 | 1-216-089-91 | | 47K | 5% | 1/1 OW |
| | _ 210 270 00 | | v | - 0 | -, | R246 | 1-216-097-00 | | 100K | | 1/1 OW |
| JR251 | 1-216-296-00 | METAL GLAZE | 0 | 5% | 1/8W | R247 | 1-216-073-00 | | 10K | 5% | 1/1 OW |
| JR252 | | METAL GLAZE | 0 | 5% | 1/8W | R248 | 1-216-073-00 | | 10K | 5% | 1/1 OW |
| JR253 | 1-216-296-00 | METAL GLAZE | 0 | 5% | 1/8W | | | | | | |
| | | | | | | 1 | | | | | |



| REF.NO. | PART NO. | DESCRIPTIO | N | | REMARK | REF.NO. | PART NO. | DESCRIPTION | ON | | REMAR | RK |
|--------------------------------------|--|---|-----------------------------------|----------------------------|---|--------------------------------------|--|---|--------------------------------------|----------------------------|--|----|
| R249 R250 R251 R252 R253 | 1-216-045-00 1-216-095-00 1-216-065-00 1-216-073-00 1-216-073-00 | METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE | 680 82K 4.7K 10K 10K | 5% 5% 5% 5% | 1/10W 1/10W 1/10W 1/10W 1/10W | R359 R360 R361 R362 R366 | 1-216-033-00 1-216-033-00 1-216-033-00 1-216-077-00 1-216-236-11 | METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE | 220 220 220 15K 39K | 5% 5% 5% 5% | 1/10W 1/10W 1/10W 1/10W 1/8W | |
| R254 R255 R256 R257 R258 | 1-216-252-00 1-216-252-00 1-249-409-11 1-249-409-11 1-216-089-91 | METAL GLAZE METAL GLAZE CARBON CARBON METAL GLAZE | 180K 180K 220 220 47K | 5% 5% 5% 5% 5% | 1/8W 1/8W 1/4W 1/4W 1/10W | R376 R377 R378 R379 R380 | 1-216-065-00 1-216-051-00 1-216-057-00 1-216-206-00 1-216-057-00 | METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE | 4.7K 1.2K 2.2K 2.2K 2.2K | | 1/10W 1/10W 1/10W 1/8W 1/10W | |
| R259 R260 R301 R302 R303 | 1-216-063-00 1-216-212-00 1-216-041-00 1-216-041-00 1-216-174-00 | METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE | 3.9K 3.9K 470 470 100 | 5% 5% 5% 5% 5% | 1/10W 1/8W 1/10W 1/10W 1/8W | R381 R382 R383 R385 R386 | 1-216-164-00 1-216-164-00 1-216-164-00 1-216-085-00 1-216-073-00 | METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE | 39 39 39 33K 10K | 5% 5% 5% 5% | 1/8W 1/8W 1/8W 1/10W 1/10W | |
| R304 R305 R306 R307 R308 | 1-216-174-00 1-216-035-00 1-216-035-00 1-216-075-00 1-216-121-00 | METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE | 100 270 270 12K 1M | 5% 5% 5% 5% 5% | 1/8W 1/10W 1/10W 1/10W 1/10W | R387 R388 R389 R390 R391 | 1-216-065-00 1-216-073-00 1-216-071-00 1-216-083-00 1-216-069-00 | METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE | 4.7K 10K 8.2K 27K 6.8K | 5% 5% 5% 5% | 1/10W 1/10W 1/10W 1/10W 1/10W | |
| R309 R310 R311 R312 R313 | 1-216-001-00 1-216-001-00 1-216-065-00 1-249-413-11 1-216-081-00 | METAL GLAZE METAL GLAZE METAL GLAZE CARBON METAL GLAZE | 10 10 4.7K 470 22K | 5% 5% 5% 5% 5% | 1/10W 1/10W 1/10W 1/4W 1/10W | R392 R393 R394 R395 R396 | 1-216-061-00 1-216-073-00 1-216-081-00 1-216-097-00 1-216-081-00 | METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE | 3.3K 10K 22K 100K 22K | 5% 5% 5% 5% | 1/10W 1/10W 1/10W 1/10W 1/10W | |
| R314 R315 R316 R318 R319 | 1-249-409-11 1-249-409-11 1-216-085-00 1-216-041-00 1-249-413-11 | CARBON CARBON METAL GLAZE METAL GLAZE CARBON | 220 220 33K 470 470 | 5% 5% 5% 5% | 1/4W 1/4W 1/10W 1/10W 1/4W | R401 R402 R403 R404 R405 | 1-216-171-00 1-216-158-00 1-216-025-00 1-216-158-00 1-216-025-00 | METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE | 75 22 100 22 100 | 5% 5% 5% 5% | 1/8W 1/8W 1/10W 1/8W 1/10W | |
| R322 R323 R324 R325 R328 | 1-216-041-00 1-216-295-00 1-216-049-00 1-216-041-00 1-216-025-00 | METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE | 470 0 1K 470 100 | 5% 5% 5% 5% | 1/10W 1/10W 1/10W 1/10W 1/10W | R406 R407 R408 R410 R411 | 1-216-158-00 1-216-025-00 1-216-093-00 1-216-067-00 1-216-067-00 | METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE | 22 100 68K 5.6K 5.6K | 5% 5% 5% 5% | 1/8W 1/10W 1/10W 1/10W 1/10W | |
| R329 R330 R331 R332 R333 | 1-216-023-00 1-216-053-00 1-216-097-00 1-216-182-91 1-216-182-91 | | 82 1.5K 100K 220 220 | 5% 5% 5% 5% | 1/10W 1/10W 1/10W 1/8W 1/8W | R412 R413 R414 R416 R417 | 1-216-022-00 1-216-022-00 1-216-022-00 1-216-113-00 1-216-067-00 | METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE | 75 75 75 470K 5.6K | 5% 5% 5% 5% 5% | 1/10W 1/10W 1/10W 1/10W 1/10W | |
| R334 R336 R337 R338 R339 | 1-216-182-91 1-216-029-00 1-216-041-00 1-216-035-00 1-216-025-00 | METAL GLAZE METAL GLAZE METAL GLAZE | 220 150 470 270 100 | 5% 5% 5% 5% | 1/8W 1/10W 1/10W 1/10W 1/10W | R419 R420 R424 R425 R428 | 1-216-025-00 | METAL GLAZE METAL GLAZE | 470K 5.6K 100 100 | | 1/10W 1/10W 1/10W 1/10W 1/4W F | |
| R340 R341 R342 R343 R344 | 1-216-025-00 1-216-025-00 1-216-033-00 1-216-022-00 1-216-022-00 | METAL GLAZE METAL GLAZE | 100 100 220 75 75 | 5% 5% 5% 5% | 1/10W 1/10W 1/10W 1/10W 1/10W | R574 R575 R577 R578 R580 | 1-216-041-00 1-216-186-00 1-216-089-91 1-216-238-91 1-216-049-00 | METAL GLAZE | 470 330 47K 47K 1K | 5% 5% 5% 5% | 1/10W 1/8W 1/10W 1/8W 1/10W | |
| R345 R346 R347 R351 R352 | 1-216-171-00 1-216-022-00 1-216-083-00 1-216-073-00 1-216-033-00 | METAL GLAZE METAL GLAZE METAL GLAZE | 75 75 27K 10K 220 | 5% 5% 5% 5% | 1/8W 1/10W 1/10W 1/10W 1/10W | R581 R582 R583 R584 R585 | | METAL GLAZE METAL GLAZE METAL GLAZE | 220 330 1.5K 390 5.6K | 5% | 1/10W 1/10W 1/10W 1/10W 1/10W | |
| R354 R355 R356 R357 R358 | 1-216-033-00 1-216-033-00 1-216-033-00 1-216-041-00 1-216-031-00 | METAL GLAZE METAL GLAZE METAL GLAZE | 220 220 220 470 180 | 5% 5% 5% 5% | 1/10W 1/10W 1/10W 1/10W 1/10W | R586 R587 R588 R589 R590 | 1-216-047-00 | | 820 820 150K 10K 1K | 5% 5% 5% 5% | 1/10W 1/10W 1/10W 1/10W 1/10W | |
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KV-X2971A/X2971D/ KV-X2973E/X2971K

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|--|--|--|---|--------------------------------------|--|--|----------------------|---------------------------------|
| REF.NO. | PART NO. | DESCRIPTION | REMARK | REF.NO. | PART NO. | DESCRIPTION | | REMARK |
| R591 R592 R593 R594 R595 | 1-216-073-00 1-216-232-00 1-216-071-00 1-216-061-00 1-216-643-11 | METAL GLAZE 27K 5% METAL GLAZE 8.2K 5% METAL GLAZE 3.3K 5% | 1/10W 1/8W 1/10W 1/10W 0% 1/10W | C154 C155 C156 C161 C162 | 1-164-232-11 1-124-477-11 1-164-117-00 | CERAMIC CHIP 2.2M CERAMIC CHIP 0.01 ELECT 47ME CERAMIC CHIP 100F CERAMIC CHIP 0.22 | F 10% 20% F 5% | 16V 50V 16V 50V 25V |
| R596 R597 R598 R600 R616 | 1-216-067-00 1-216-230-00 1-216-053-00 1-216-174-00 1-216-184-00 | METAL GLAZE 22K 5% METAL GLAZE 1.5K 5% METAL GLAZE 100 5% | 1/10W 1/8W 1/10W 1/8W 1/8W | C163 C164 C165 C166 C167 | 1-163-141-00 1-164-232-11 1-124-477-11 | CERAMIC CHIP 1MF CERAMIC CHIP 0.00 CERAMIC CHIP 0.01 ELECT 47MF CERAMIC CHIP 0.00 | F 10% | 16V 50V 50V 16V 50V |
| R619 R628 R632 R681 R682 | 1-216-077-00 1-249-413-11 1-216-065-00 1-216-541-00 1-249-415-11 | CARBON 470 5% METAL GLAZE 4.7K 5% METAL OXIDE 4.3 5% | 1/10W 1/4W 1/10W 3W F 1/4W | C168 C170 C171 C173 | 1-124-477-11 1-124-477-11 1-124-477-11 | ELECT 47MF | 20% | 16V 16V 16V 16V |
| 200 | 4 046 080 00 | 100 50 | 4 (4 0** | | < FII | TER > | | |
| R683 R2219 R2220 R2221 R2222 | 1-216-073-00 1-216-174-00 1-216-174-00 1-216-174-00 1-216-174-00 | METAL GLAZE 100 5% METAL GLAZE 100 5% METAL GLAZE 100 5% | 1/10W 1/8W 1/8W 1/8W 1/8W | CF2 CF3 CF4 SWF1 | 1-527-840-00 1-567-570-00 | FILTER, CERAMIC FILTER, CERAMIC FILTER, CERAMIC FILTER, SAWTOOTH | WAVE | |
| | < TUN | JER > | | | < COM | NECTOR > | | |
| TU101 | 1-693-185-11 | TUNER (UV-916H) (KV-X2971A, X2971B, X29 X2973E, X2971K) | 71D, | CN1 CN2 | | PIN, CONNECTOR (PPIN, CONNECTOR (P | | |
| | 1-693-184-11 | TUNER (U944C) (KV-X2972U) | | | < TRI | MMER > | | |
| | < CRY | (STAL > | | CT1 | 1-404-801-11 | TRAP, CERAMIC | | |
| X301 | | OSCILLATOR, CRYSTAL | | | < DIC | DDE > | | |
| X302 | | OSCILLATOR, CRYSTAL | | D161 | 8-719-400-18 | DIODE MA152WK | | |
| ****** | | ******* | | | < IC | > | | |
| ÷ | | IF BLOCK (IFH-389) (KV- ************* X29 PACITOR > | | IC1 IC2 IC3 | 8-759-070-76 8-759-070-71 8-759-514-54 | IC TDA9820 | | |
| | | | | | | | | |
| C101 | | CERAMIC CHIP 150PF | 5% 50V | | < C01 | Tr > | | |
| C102 C103 | | CERAMIC CHIP 0.22MF CERAMIC CHIP 0.01MF | 25V 10% 50V | L101 | 1-408-421-00 | INDUCTOR 100UH | | |
| C104 | | CERAMIC CHIP 0.01F | 10% 50V | L102 | 1-408-419-00 | INDUCTOR 68UH | | |
| C105 | | CERAMIC CHIP 0.1MF | 10% 25V | L103 | 1-408-419-00 | | | |
| C106 | 1 104 455 11 | TI DOT ATIVE | 0.00. 1.077 | L104 | 1-408-408-00 | | | |
| C100 | 1-124-477-11 | ELECT 47MF CERAMIC CHIP 0.1MF | 20% 16V 10% 25V | L121 | 1-408-413-00 | INDUCTOR 22UH | | |
| C108 | | CERAMIC CHIP 0.1MF | 10% 25V | L122 | 1-408-420-00 | INDUCTOR 82UH | | |
| C109 | | CERAMIC CHIP 0.01F | 10% 50V | L142 | 1-408-790-00 | | H | |
| C112 | 1-164-004-11 | CERAMIC CHIP 0.1MF | 10% 25V | L151 L161 | 1-408-419-00 1-408-419-00 | | | |
| C113 C114 | 1-164-101-00 1-124-477-11 | CERAMIC CHIP 22PF ELECT 47MF | 5% 50V 20% 16V | | , mpa | NSISTOR > | | |
| C115 | | CERAMIC CHIP 0.01F | 10% 50V | | (IRE | MSISION > | | |
| C116 | | CERAMIC CHIP 1MF | 16V | Q101 | 8-729-920-74 | | | |
| C118 | 1-164-004-11 | CERAMIC CHIP 0.1MF | 10% 25V | Q102 Q121 | 8-729-216-22 8-729-920-74 | | | |
| C119 | 1-163-369-11 | CERAMIC CHIP 47PFF | 5% 25V | Q121 Q122 | 8-729-216-22 | | | |
| C121 | 1-163-235-11 | CERAMOC CHIP 22PF | 5% 50V | Q161 | 8-729-216-22 | | | |
| C122 C123 | | CERAMIC CHIP 33PF | 5% 50V 5% 50V | 0170 | 0_720_020_74 | TRANSISTOR 2SC241 | 2¥_0p | |
| C124 | | CERAMIC CHIP 22PF CERAMIC CHIP 0.1MF | 5% 50V 10% 25V | Q170 Q171 | | TRANSISTOR 25C241 | | |
| | | | | Q172 | 8-729-920-74 | TRANSISTOR 2SC241 | 2K-QR | |
| C130 C131 | | METAL GLAZE 0 5% CERAMIC CHIP 10PF | 5 1/10W 5% 50V | Q173 | 8-729-920-74 | TRANSISTOR 2SC241 | ZK-ÜK | |
| C133 | 1-124-477-11 | | 20% 16V | | < RES | ISTOR > | | |
| C152 | 1-164-337-11 | CERAMIC CHIP 2.2MF | 16V | | | | F0. 411 | ΛW |
| C153 | 1-164-337-11 | CERAMIC CHIP 2.2MF | 16V | JR2 | 1-216-295-00 | METAL GLAZE 0 | 5% 1/1 | UW |

IF (KV-X2971A/X2971D/) IF

IF (KV-X2972U)

| L | - | , | | • | | | | | | | | | |
|--------------|------------------------------|---------------|--------------|-----------|----------------|--------|--------------|------------------------------|----------------------------|--------------|----------|----------------|------------|
| REF.NO. | PART NO. | DESCRIPTION | ON | | Ĩ | REMARK | REF.NO. | PART NO. | DESCRIPT | ION | | | REMARK |
| JR3 JR4 | 1-216-296-00 1-216-295-00 | METAL GLAZE | 0 | 5% 5% | 1/8W 1/10W | | R162 | 1-216-073-00 | METAL GLAZE | 10K | 5% | 1/10 | |
| JR7 JR8 | 1-216-295-00 1-216-295-00 | METAL GLAZE | 0 | 5% 5% | 1/10W 1/10W | | R163 R164 | 1-216-113-00 1-216-113-00 | METAL GLAZE METAL GLAZE | 470K 470K | 5% 5% | 1/10 1/10 | |
| | | | • | | -, | | R165 | 1-216-081-00 | METAL GLAZE | 22K | 5% | 1/10 | |
| JR9 | 1-216-296-00 | METAL GLAZE | 0 | 5% | 1/8W | | R166 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10 | |
| JR11 | 1-216-296-00 | METAL GLAZE | 0 | 5% | 1/8W | | R167 | 1-216-073-00 | METAL GLAZE | 10K | 5% | 1/10 | W |
| JR14 | 1-216-296-00 | | 0 | 5% | 1/8W | | -160 | | | | | | |
| JR16 JR18 | 1-216-295-00 | METAL GLAZE | 0 | 5% | 1/10W | | R168 | 1-216-113-00 | METAL GLAZE | 470K | 5% | 1/10 | |
| OKIO | 1-216-295-00 | METAL GLAZE | 0 | 5% | 1/10W | | R169 R170 | 1-216-049-00 1-216-083-00 | | 1K 27K | 5% 5% | 1/10 | |
| JR19 | 1-216-296-00 | METAL GLAZE | . 0 | 5% | 1/8W | | R171 | 1-216-075-00 | | 12K | 5% | 1/10 | |
| JR20 | 1-216-296-00 | METAL GLAZE | 0 | 5% | 1/8W | | R172 | 1-216-095-00 | METAL GLAZE | 82K | 5% | 1/10 | |
| JR21 | 1-216-296-00 | METAL GLAZE | 0 | 5% | 1/8W | | | | | | | -, | |
| JR23 | 1-216-296-00 | METAL GLAZE | 0 | 5% | 1/8W | | R173 | 1-216-059-00 | | 2.7K | 5% | 1/10 | |
| JR24 | 1-216-296-00 | METAL GLAZE | 0 | 5% | 1/8W | | R174 | 1-216-057-00 | | 2.2K | 5% | 1/10 | |
| JR25 | 1-216-296-00 | METAL GLAZE | 0 | 5% | 1 / 01/7 | | R175 | 1-216-083-00 | | 27K | 5% | 1/10 | |
| JR29 | 1-216-296-00 | METAL GLAZE | 0 | 5% | 1/8W 1/8W | | R176 R177 | 1-216-075-00 1-216-095-00 | | 12K 82K | 5% 5% | 1/10V 1/10V | |
| JR30 | 1-216-295-00 | | 0 | 5% | 1/10W | | KI// | 1-210-055-00 | MEIAL GLAZE | 021 | 3% | 1/10 | Ŋ |
| JR33 | 1-216-295-00 | METAL GLAZE | Ö | 5% | 1/10W | | R178 | 1-216-059-00 | METAL GLAZE | 2.7K | 5% | 1/10 | V |
| JR38 | 1-216-296-00 | METAL GLAZE | 0 | 5% | 1/8W | | R179 | 1-216-057-00 | | 2.2K | 5% | 1/10 | |
| | | | | | | | R180 | 1-216-037-00 | | 330 | 5% | 1/10 | Ÿ |
| JR39 | 1-216-296-00 | METAL GLAZE | 0 | 5% | 1/8W | | R181 | 1-216-037-00 | METAL GLAZE | 330 | 5% | 1/10 | Ÿ. |
| JR40 | 1-216-296-00 | METAL GLAZE | 0 | 5% | 1/8 | | | . 173.7 | TIDID DEGTOR | . | | | |
| R101 | 1-216-075-00 | METAL GLAZE | 12K | 5% | 1/10W | | | < VAF | RIABLE RESISTO | JR > | | | |
| R102 | 1-216-073-00 | METAL GLAZE | 10K | 5% | 1/10W | | RV1 | 1-241-121-11 | RES. ADJ. CA | ARBON 4. | 7 K | | |
| R103 | 1-216-057-00 | METAL GLAZE | 2.2K | 5% | 1/10W | | | | 11207 11207 01 | 1.0011 11 | | | |
| R104 | 1-216-051-00 | METAL GLAZE | 1.2K | 5% | 1/10W | | | < TRA | INSFORMER > | | | | |
| R106 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W | | | | | | | | |
| R107 | 1 216 065 00 | WEEDLY OF LEE | 4 77 | Ε0. | 1 /1 017 | | T4 | 1-416-017-21 | | | | | |
| R107 | 1-216-065-00 1-216-065-00 | | 4.7K 4.7K | 5% 5% | 1/10W 1/10W | | Т5 | 1-416-018-21 | COIL | | | | |
| R110 | 1-216-041-00 | | 470 | 5% | 1/10W | | ****** | ****** | ****** | ****** | **** | ****** | ***** |
| R113 | 1-216-031-00 | | 180 | 5% | 1/10W | | | | | | | | |
| R114 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W | | | 1-466-734-11 | IF BLOCK (IF | H-395) | (KV-X | (2972U) | |
| 2445 | 4 444 444 44 | | | | | | | | ******** | ***** | | | |
| R115 R116 | 1-216-027-00 1-216-101-00 | | 120 | 5% | 1/10W | | | | 1.0700 | | | | |
| R117 | 1-216-101-00 | | 150K 100K | 5% 5% | 1/10W 1/10W | | | < CAP | PACITOR > | | | | |
| R118 | 1-216-117-00 | METAL GLAZE | 680K | 5% | 1/10W | | C101 | 1-163-239-11 | CERAMIC CHIE | אַסגג כ | | 5% | 50V |
| R119 | 1-216-240-00 | METAL GLAZE | 56K | 5% | 1/8W | | C102 | 1-164-222-11 | CERAMIC CHIE | | | 3.0 | 25V |
| | | | | | | | C103 | 1-164-232-11 | | | | 10% | 50V |
| R120 | 1-216-075-00 | | 12K | 5% | 1/10W | | C104 | 1-164-232-11 | CERAMIC CHIE | | | 10% | 50V |
| R121 R122 | 1-216-053-00 | | 1.5K | | 1/10W | | C105 | 1-164-004-11 | CERAMIC CHIE | 0.1MF | | 10% | 25V |
| R123 | 1-216-061-00 1-216-075-00 | | 3.3K 12K | 5% 5% | 1/10W 1/10W | | C106 | 1-124-477-11 | DI DOM | 47MF | | 20% | 1 677 |
| R124 | 1-216-041-00 | | 470 | 5% | 1/10W | | C107 | 1-164-004-11 | | | | 10% | 16V 25V |
| | | | ٥. ٠ | - • | _, _ v | | C108 | 1-164-004-11 | | | | 10% | 25V 25V |
| R125 | 1-216-041-00 | | 470 | 5% | 1/10W | | C109 | 1-164-232-11 | CERAMIC CHIE | 0.01F | | 10% | 50V |
| R127 | 1-216-047-00 | | 820 | 5% | 1/10W | | C112 | 1-164-004-11 | CERAMIC CHIE | 0.1MF | | 10% | 25V |
| R130 R131 | 1-216-049-00 | METAL GLAZE | 1K | 5% E% | 1/10W | | 0112 | 1 164 101 00 | anniura ar | 00== | | F9. | FOTT |
| R131 | 1-216-025-00 1-216-069-00 | | 100 6.8K | 5% 5% | 1/10W 1/10W | | C113 C114 | 1-164-101-00 1-124-477-11 | | | | 5% 20% | 50V |
| | 1 210-003-00 | HEIME GUALE | 0.01 | J10 | 1/10M | | C114 C115 | 1-124-4/7-11 | | 47MF | | 20% 10% | 16V 50V |
| R133 | 1-216-061-00 | METAL GLAZE | 3.3K | 5% | 1/10W | | C116 | 1-164-346-11 | | | | -V-0 | 16V |
| R134 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W | | C118 | 1-164-004-11 | | | | 10% | 25V |
| R135 | 1-216-198-00 | | 1K | 5% | 1/8W | | | | | | | | |
| R150 R151 | 1-216-043-00 | | 560 | 5% | 1/10W | | C119 | 1-163-369-11 | | | | 5% | 25V |
| VIJI | 1-216-043-00 | METAL GLAZE | 560 | 5% | 1/10W | | C122 C130 | 1-163-093-11 | | | EO. | 5% | 50V |
| R152 | 1-216-043-00 | METAL GLAZE | 560 | 5% | 1/10W | | C130 | 1-216-295-00 1-163-224-11 | CERAMIC CHIP | 0 7 P F | 5% | 1/1 0.25PF | |
| R153 | 1-216-025-00 | | 100 | 5% | 1/10W | | C133 | 1-124-477-11 | ELECT | 47MF | | 20% | 16V |
| R154 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W | | | | | - / 444 | | | |
| R155 | 1-216-051-00 | METAL GLAZE | 1.2K | 5% | 1/10W | | C161 | 1-164-117-00 | | | | 5% | 50V |
| R156 | 1-216-083-00 | METAL GLAZE | 27K | 5% | 1/10W | | C162 | 1-164-222-11 | | | | | 25V |
| R157 | 1-216-051-00 | MEMAT, OTATE | 1.2K | 5% | 1/10W | | C163 | 1-164-346-11 | | | , | E% | 16V |
| R159 | 1-216-051-00 | | 270K | | 1/10W | | C164 C165 | 1-163-141-00 1-164-232-11 | | | | 5% 10% | 50V 50V |
| R160 | 1-216-049-00 | | 1K | 5% | 1/10W | | 5103 | T TO# DJ0-11 | CERMIC CELF | O.VIF | | 70.0 | 204 |
| R161 | 1-216-755-11 | | | 0.50% | | | C166 | 1-124-477-11 | ELECT | 47MF | | 20% | 16V |
| | | | | | | | | | | _ | | | |

| REF.NO. PART NO. | DESCRIPTION | RE | EMARK | REF.NO. | PART NO. | DESCRIPTION | | REMARK |
|--|---|------------------------|--------------------------|--------------------------------------|--|---|--|--|
| | | 20% 1 | 50V L6V L6V L6V | JR20 JR21 JR23 JR24 | 1-216-296-00 1-216-296-00 1-216-296-00 1-216-296-00 | METAL GLAZE COMETAL GLAZE COMETAL GLAZE | 5% 5% 5% | 1/8W 1/8W 1/8W 1/8W |
| C173 1-124-477-11 | ELECT 47MF | 20% 1 | 16V | JR25 | 1-216-296-00 | METAL GLAZE | | 1/8W |
| < FIL | TER > | | | JR29 JR30 | 1-216-296-00 1-216-295-00 | METAL GLAZE | 5% | 1/8W 1/10W 1/10W |
| CF1 1-567-569-11 | DISCRIMINATOR, CERAMIC FILTER, CERAMIC FILTER, SAWTOOTH WAVE | | | JR33 JR38 JR39 | 1-216-295-00 1-216-296-00 1-216-296-00 | METAL GLAZE C | 5% 5% | 1/8W 1/8W |
| < CON | NECTOR > | | | JR40 JR41 | 1-216-296-00 1-216-295-00 | | | 1/8W 1/10W |
| | PIN, CONNECTOR (PC BOA PIN, CONNECTOR (PC BOA | | | JR42 JR101 | 1-216-295-00 1-216-295-00 | METAL GLAZE (| 5% | 1/10W 1/10W |
| < TRI | MMER > | | | R101 R102 | 1-216-075-00 1-216-045-00 | METAL GLAZE | 2K 5% | 1/10W 1/10W |
| CT1 1-409-333-00 | TRAP, CERAMIC (6.0MHZ) | | | R103 R104 | 1-216-057-00 1-216-051-00 | METAL GLAZE 1 | .2K 5% | 1/10W 1/10W |
| < DIC | DDE > | | | R105 | 1-216-043-00 | | 60 5% | 1/10W |
| D161 8-719-400-18 | DIODE MA152WK | | | R106 R107 R108 | 1-216-049-00 1-216-065-00 1-216-065-00 | METAL GLAZE 4 | .7K 5% | 1/10W 1/10W 1/10W |
| < IC | > | | | R110 R112 | 1-216-041-00 1-216-045-00 | | 170 5% 180 5% | 1/10W 1/10W |
| IC1 8-759-070-76 IC3 8-759-514-54 | | | | R113 R114 | 1-216-031-00 1-216-049-00 | | .80 5% .K 5% | 1/1 OW 1/1 OW |
| < CO1 | IL > | | | R115 R116 | 1-216-031-00 1-216-101-00 | METAL GLAZE | .80 5% .50K 5% | 1/1 OW 1/1 OW |
| L101 1-408-414-00 L102 1-408-419-00 | | | | R117 | 1-216-097-00 | | .00K 5% | 1/1 OW |
| L102 1-408-419-00 L103 1-408-419-00 L104 1-408-406-00 L105 1-408-410-00 | INDUCTOR 68UH INDUCTOR 5.6UH | | | R118 R119 R120 | 1-216-117-00 1-216-240-00 1-216-075-00 | METAL GLAZE S | 580K 5% 56K 5% .2K 5% | 1/1 OW 1/8 W 1/1 OW |
| L142 1-408-790-41 L161 1-408-419-00 | | | | R121 R122 | 1-216-053-00 1-216-061-00 | | .5K 5% | 1/1 OW 1/1 OW |
| | ANSISTOR > | | | R123 R130 | 1-216-061-00 1-216-049-00 | | 3.3K 5% | 1/1 OW 1/1 OW |
| | TRANSISTOR 2SC2412K-Q | 2 | | R131 R132 | 1-216-025-00 1-216-069-00 | METAL GLAZE | .00 5% | 1/1 OW 1/1 OW |
| Q102 8-729-216-22 Q122 8-729-216-22 | TRANSISTOR 2SA1162-G TRANSISTOR 2SA1162-G | | | R133 | 1-216-061-00 | METAL GLAZE | 3.3K 5% | 1/1 OW |
| Q161 8-729-216-22 Q172 8-729-920-74 | TRANSISTOR 2SA1162-G TRANSISTOR 2SC2412K-Q | R | | R134 R135 R153 | 1-216-049-00 1-216-198-00 1-216-025-00 | METAL GLAZE | .K 5% .K 5% .00 5% | 1/1 OW 1/8 W 1/1 OW |
| Q173 8-729-920-74 | TRANSISTOR 2SC2412K-Q | ₹ | | R159 R160 | 1-216-107-00 1-216-049-00 | METAL GLAZE | 70K 5% | 1/1 OW 1/1 OW |
| < RE | SISTOR > | | | R161 | 1-216-755-11 | | 130K 0.50 | % 1/1 O W |
| JR2 1-216-295-00 | METAL GLAZE 0 5' METAL GLAZE 0 5' | 1/10W 1/8W 1/10W | | R162 R163 R164 R165 | 1-216-073-00 1-216-113-00 1-216-113-00 1-216-081-00 | METAL GLAZE 4 METAL GLAZE 4 | 10K 5% 170K 5% 170K 5% 12K 5% | 1/1 OW 1/1 OW 1/1 OW 1/1 OW |
| | METAL GLAZE 0 5 | | | R166 R167 | 1-216-049-00 1-216-073-00 | | LK 5% | 1/1 OW 1/1 OW |
| | METAL GLAZE 0 5 | 6 1/8W | | R168 R169 | 1-216-113-00 1-216-049-00 | METAL GLAZE | 70K 5% | 1/1 OW 1/1 OW |
| JR11 1-216-296-00 JR12 1-216-296-00 | METAL GLAZE 0 5 | 6 1/8W | | R175 | 1-216-083-00 | METAL GLAZE | 27K 5% | 1/1 OW |
| JR14 1-216-296-00 JR16 1-216-295-00 JR18 1-216-295-00 | CERAMIC CHIP 10PF METAL GLAZE 0 5 METAL GLAZE 0 5 METAL GLAZE 0 5 METAL GLAZE 0 5 | 6 1/10W 6 1/10W |)V | R176 R177 R178 R179 R181 | 1-216-057-00 | METAL GLAZE 2 METAL GLAZE 2 METAL GLAZE 2 | 12K 5% 32K 5% 2.7K 5% 2.2K 5% 330 5% | 1/1 OW 1/1 OW 1/1 OW 1/1 OW 1/1 OW |

| IF (KV-X2972U) | IF (KV-X2971B) |
|-----------------------|-----------------------|
|-----------------------|-----------------------|

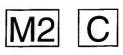
| REF.NO. | PART NO. | DESCRIPTION | ON | | REMARK | REF.NO. | PART NO. | DESCRIPTION | | REMARK |
|----------------|------------------------------|------------------------------|----------------|-------------------|-------------------|--------------|------------------------------|---|------------|------------|
| | | RIABLE RESISTO | | | | C105 C106 | 1-163-017-00 1-163-017-00 | CERAMIC CHIP 0.0047MF CERAMIC CHIP 0.0047MF | 10% 10% | 50V 50V |
| RV1 | 1-241-121-11 | RES, ADJ, CAI | RBON 4.7K | | | C119 | 1-163-369-11 | CERAMIC CHIP 47PFF | 5% | 25V |
| Т4 | | INSFORMER > | | | | C121 C122 | 1-126-176-11 1-163-119-00 | ELECT 220MF CERAMIC CHIP 120PF | 20% 5% | 10V 50V |
| T4 T5 | 1-416-017-21 1-416-018-21 | | | | | C131 | 1-126-099-11 | ELECT 2.2MF | 20% | 35V |
| ***** | ****** | ****** | ******* | ***** | ****** | | < FII | LTER > | | |
| | 1_466_735_11 | IF BLOCK (IF | 1_200F) /FI | 7_ V 20715 | | CF1 CF2 | | FILTER, CERAMIC | | |
| | | ******** | ****** | - K2)/1D | '1 | CF3 CF4 | 1-527-840-00 1-567-570-11 | FILTER, CERAMIC FILTER, CERAMIC FILTER, CERAMIC | | |
| | < CAI | PACITOR > | | | | SWF1 | 1-579-662-11 | FILTER, SURFACE WAVE | | |
| C1 C2 C3 | | CERAMIC CHIP | | 10% 10% 20% | 50V 50V 50V | SWF3 SWF4 | 1-404-711-11 1-579-660-11 | SAWF FILTER, SAWTOOTH WAVE | | |
| C4 | 1-164-232-11 | CERAMIC CHIP | 0.01MF | 10% | 50V | | < COM | NNECTOR > | | |
| C5 | 1-164-232-11 | CERAMIC CHIP | 0.01MF | 10% | 50 V | CN1 | 1-750-173-11 | PIN, CONNECTOR (PC BOAR) | D) 10P | |
| C6 C7 | 1-163-017-00 | CERAMIC CHIP CERAMIC CHIP | 0.0047MF | 10% 10% | 50V 50V | CN2 | 1-750-173-11 | PIN, CONNECTOR (PC BOAR) | D) 10P | |
| C8 | 1-163-017-00 | CERAMIC CHIP | 0.0047MF | 10% | 50V | | < TR | IMMER > | | |
| C9 C10 | 1-124-916-11 1-164-232-11 | ELECT CERAMIC CHIP | 22MF 0.01MF | 20% 10% | 25V 50V | CT1 | 1-404-801-11 | TRAP, CERAMIC | | |
| C11 | 1-124-477-11 | RI.RCT | 47MF | 20% | 16V | CT2 CV1 | 1-409-429-11 | TRAP, CERAMIC CAP, TRIMMER | | |
| C13 | 1-163-059-00 | CERAMIC CHIP | 0.01MF | 10% | 50V | CV1 | 1-141-245-00 | CAP, TRIMMER | | |
| C14 C15 | 1-124-477-11 1-124-903-11 | | 47MF | 20% 20% | 16V 50V | CV3 | 1-141-304-21 | TRIMMER, CERAMIC | | |
| C16 | 1-163-061-00 | CERAMIC CHIP | 0.015MF | 10% | 50V | | < DIC | DDE > | | |
| C17 | | CERAMIC CHIP | | | 16V | D7 | | DIODE MA73-TX | | |
| C18 C19 | | CERAMIC CHIP | | 5% | 16V 50V | D8 D9 | | DIODE MA73-TX DIODE MA73-TX | | |
| C20 C21 | 1-124-902-00 1-124-903-11 | | 0.47MF 1MF | 20% 20% | 50V 50V | | < IC | | | |
| C22 | | CERAMIC CHIP | | 10% | 50V | 701 | | | | |
| C23 | 1-124-902-00 | ELECT | 0.47MF | 20% | 50V | IC1 IC2 | 8-759-070-75 8-759-070-71 | IC TDA9820 | | |
| C24 C25 | 1-164-506-11 1-124-477-11 | CERAMIC CHIP | 4.7MF 47MF | 20% | 16V 16V | IC3 | 8-759-979-62 | IC PCF8574 | | |
| C26 | | CERAMIC CHIP | 0.01MF | 10% | 50V | | < COI | L > | | |
| C27 | 1-164-232-11 | | | | | | 1-408-419-00 | | | |
| C28 C33 | 1-124-477-11 1-124-907-11 | | 47MF 10MF | 20% 20% | 16V 50V | L2 L3 | 1-408-419-00 1-408-407-00 | | | |
| C34 C35 | 1-124-907-11 1-124-925-11 | | 10MF 2.2MF | 20% 20% | 50V 50V | L4 L5 | 1-408-419-00 | INDUCTOR 68UH | | |
| C36 | | | | | | | 1-408-419-00 | | | |
| C37 | 1-124-477-11 1-164-232-11 | CERAMIC CHIP | 47MF 0.01MF | 20% 10% | 16V 50V | L7 L9 | 1-408-406-00 1-408-419-00 | INDUCTOR 5.6UH INDUCTOR 68UH | | |
| C38 C40 | | CERAMIC CHIP CERAMIC CHIP | | 10% 10% | 50V 50V | L71 L101 | 1-408-419-00 | INDUCTOR 68UH | | |
| C71 | 1-124-477-11 | | 47MF | 20% | 16V | L121 | 1-408-399-00 1-408-407-00 | | | |
| C72 | | CERAMIC CHIP | | 10% | 50V | | < TRA | NSISTOR > | | |
| C80 C83 | 1-124-477-11 1-124-477-11 | | 47MF | 20% 20% | 16V 16V | Q1 | 8-729-907-06 | TRANSISTOR BF199-AMMO | | |
| C84 C85 | 1-124-477-11 | ELECT | 47MF | 20% | 16V | Q4 | 8-729-920-74 | TRANSISTOR 2SC2412K-QR | | |
| | 1-124-477-11 | | 47MF | 20% | 16V | Q5 Q6 | 8-729-900-52 | TRANSISTOR 2SK105A-10 TRANSISTOR DTC114YK | | |
| C86 C87 | 1-124-477-11 1-124-477-11 | | 47MF 47MF | 20% 20% | 16V 16V | Q7 | 8-729-216-22 | TRANSISTOR 2SA1162-G | | |
| C91 C95 | 1-163-229-11 | CERAMIC CHIP | 12PF | 5% | 50V | Q8 | 8-729-920-74 | TRANSISTOR 2SC2412K-QR | | |
| C101 | | CERAMIC CHIP CERAMIC CHIP | | 10% | 16V 50V | Q10 Q11 | 8-729-920-74 | TRANSISTOR 2SC2412K-QR TRANSISTOR 2SC2412K-QR | | |
| C102 C104 | | CERAMIC CHIP | | 10% | 50V | Q12 Q13 | 8-729-920-74 | TRANSISTOR 2SC2412K-QR TRANSISTOR 2SC2412K-QR | | |
| V-V1 | T-T02-011-00 | CERAMIC CHIP | U.UU4/MF | 10% | 50V | | | | | |



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|-----------------------------------|--|--|---------------------------|----------|----------------|---------------------------------|--|---|--------------------------------|----------------------|--|------------|
| REF.NO. | PART NO. | DESCRIPTIO | N | | REMARK | REF.NO. | PART NO. | DESCRIPTI | ON | | | REMARK |
| Q14 Q15 Q16 Q101 Q121 | 8-729-920-74 8-729-920-74 8-729-216-22 8-729-104-80 8-729-920-74 | TRANSISTOR 2S TRANSISTOR 2S TRANSISTOR 2S TRANSISTOR 2S | C2412K A1162- C3355 | -QR G | | R76 R77 R81 R82 R83 | 1-216-025-00 1-216-174-00 1-216-095-00 1-216-121-00 1-216-025-00 | METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE | 100 100 82K 1M 100 | 5% 5% 5% 5% | 1/10W 1/8W 1/10W 1/10W 1/10W | |
| | < RES | SISTOR > | | | | R84 | 1-216-085-00 | METAL GLAZE | 33K | 5% | 1/10W | |
| | | | | | | R85 | 1-216-085-00 | METAL GLAZE | 33K | 5% | 1/10W | |
| JR2 | 1-216-295-00 | METAL GLAZE | 0 | 5% | 1/10W | R86 | 1-216-689-00 | METAL GLAZE | 39K | 5% | 1/10W | |
| JR3 | 1-216-296-00 | METAL GLAZE METAL GLAZE | 0 | 5% 5% | 1/8W 1/8W | R87 R88 | 1-216-095-00 1-216-095-00 | METAL GLAZE | 82K 82K | 5% 5% | 1/10W 1/10W | |
| JR5 | 1-216-296-00 | METAL GLAZE | U | 24 | 1/04 | KOO | 1-210-093-00 | METAL GLAZE | 02K | 7.0 | 1/10# | |
| R1 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W | R89 | 1-216-095-00 | METAL GLAZE | 82K | 5% | 1/10W | |
| R2 | 1-216-065-00 | METAL GLAZE | 4.7K | 5% | 1/10W | R90 | 1-216-075-00 | METAL GLAZE | 12K | 5% | 1/10W | |
| R3 R4 | 1-216-065-00 | METAL GLAZE METAL GLAZE | 4.7K 470 | 5% 5% | 1/10W 1/10W | R91 R92 | 1-216-295-00 1-216-075-00 | METAL GLAZE | 0 12K | 5% 5% | 1/10W 1/10W | |
| R5 | 1-216-041-00 1-216-021-00 | METAL GLAZE | 68 | 5% | 1/10W | R93 | 1-216-075-00 | METAL GLAZE | 12K | 5% | 1/10W | |
| | 1 210 021 00 | maria omia | | | | | | | | | | |
| R6 | 1-216-055-00 | METAL GLAZE | 1.8K | 5% | 1/10W | R94 | 1-216-059-00 | METAL GLAZE | 2.7K | | 1/10W | |
| R8 | 1-216-051-00 | METAL GLAZE METAL GLAZE | 1.2K 6.8K | 5% 5% | 1/10W 1/10W | R95 R96 | 1-216-059-00 1-216-059-00 | METAL GLAZE METAL GLAZE | 2.7K 2.7K | | 1/10W 1/10W | |
| R9 R10 | 1-216-069-00 1-216-071-00 | METAL GLAZE | 8.2K | 5% | 1/10W 1/10W | R97 | 1-216-057-00 | METAL GLAZE | 2.2K | | 1/10W | |
| R11 | 1-216-059-00 | | 2.7K | | 1/10W | R98 | 1-216-057-00 | METAL GLAZE | 2.2K | | 1/10W | |
| | | | | | 4 (0.0 | 200 | 4 046 057 00 | | 0.0** | F0. | 1 / 1 02 | |
| R24 R25 | 1-216-280-00 | METAL GLAZE METAL GLAZE | 2.7M 2.2K | 5% 5% | 1/8W 1/10W | R99 R100 | 1-216-057-00 1-216-065-00 | METAL GLAZE | 2.2K 4.7K | | 1/10W 1/10W | |
| R26 | 1-216-057-00 1-216-061-00 | | 3.3K | 5% | 1/10W | R102 | 1-216-065-00 | METAL GLAZE | 4.7K | | 1/10W | |
| R27 | 1-216-266-00 | METAL GLAZE | 680K | 5% | 1/8W | R103 | 1-216-063-00 | METAL GLAZE | 3.9K | | 1/10W | |
| R28 | 1-216-075-00 | METAL GLAZE | 12K | 5% | 1/10W | R104 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W | |
| R29 | 1-216-035-00 | METAL GLAZE | 270 | 5% | 1/10W | R105 | 1-216-033-00 | METAL GLAZE | 220 | 5% | 1/ 1 0W | |
| R30 | 1-216-049-00 | METAL GLAZE | IK | 5% | 1/10W | R121 | 1-216-073-00 | METAL GLAZE | 10K | 5% | 1/10W | |
| R31 | 1-216-017-00 | | 47 | 5% | 1/10W | R122 | 1-216-065-00 | METAL GLAZE | 4.7K | 5% | 1/10W | |
| R32 | 1-216-043-00 | METAL GLAZE | 560 | 5% | 1/10W | R123 | 1-216-041-00 | METAL GLAZE | 470 | 5% | 1/10W | |
| R33 | 1-216-037-00 | METAL GLAZE | 330 | 5% | 1/10W | R124 | 1-216-041-00 | METAL GLAZE | 470 | 5% | 1/ 1 0W | |
| R34 | 1-216-252-00 | METAL GLAZE | 180K | 5% | 1/8W | R125 | 1-216-041-00 | METAL GLAZE | 470 | 5% | 1/10W | |
| R35 | 1-216-035-00 | METAL GLAZE | 270 | 5% | 1/10W | R301 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W | |
| R36 | 1-216-029-00 | | 150 | 5% | 1/10W | R302 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W | |
| R37 R38 | 1-216-049-00 1-216-099-00 | | IK 120K | 5% 5% | 1/10W 1/10W | R303 R304 | 1-216-049-00 1-216-037-00 | METAL GLAZE | 1K 330 | 5% 5% | 1/10W 1/10W | |
| 1130 | 1-210-055-00 | MBIAD ODAZD | 1201 | 3.0 | 2/2011 | 1.501 | | | | | | |
| R39 | 1-216-089-00 | | 47K | 5% | 1/10W | R305 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W | |
| R40 R42 | 1-216-049-00 | | IK 3.3K | 5% 5% | 1/10W 1/10W | R306 R307 | 1-216-025-00 1-216-037-00 | METAL GLAZE | 100 330 | 5% 5% | 1/10W 1/10W | |
| R42 | 1-216-061-00 1-216-067-00 | | 5.6K | 5% | 1/10W 1/10W | R308 | 1-216-037-00 | METAL GLAZE | 330 | 5% | 1/10W | |
| R44 | | METAL GLAZE | 120 | 5% | 1/10W | 1.000 | | | | | · | |
| D4E | 1 016 011 00 | 100m1 01100 | 470 | F0. | 1 /102 | | < VAR | IABLE RESISTO | R > | | | |
| R45 R46 | | METAL GLAZE METAL GLAZE | 470 180 | 5% 5% | 1/10W 1/10W | RV2 | 1-241-120-11 | RES, ADJ, CA | RBON 2. | 2K | | |
| R47 | | METAL GLAZE | 12K | 5% | 1/10W | | | | | | | |
| R48 | | METAL GLAZE | 22K | 5% | 1/10W | | < TRA | NSFORMER > | | | | |
| R49 | 1-216-049-00 | METAL GLAZE | IK | 5% | 1/10W | T1 | 1-404-806-21 | COIL | | | | |
| R53 | 1-216-082-00 | METAL GLAZE | 24K | 5% | 1/10W | Т3 | 1-416-012-11 | | | | | |
| R54 | 1-216-043-00 | METAL GLAZE | 560 | 5% | 1/10W | T4 | 1-416-012-11 | COIL | | | | |
| R55 | | METAL GLAZE | 560 | 5% | 1/10W | Т5 | 1-402-720-11 | COIL | | | | |
| R56 R57 | | METAL GLAZE METAL GLAZE | 4.7K | 5% 5% | 1/10W 1/10W | | < CRY | STAL > | | | | |
| | ± 2±0 005-00 | mine ounds | 2474 | 5 0 | -/ - 4 | | | | | | | |
| R58 | | METAL GLAZE | 470 | 5% | 1/10W | X1 | 1-579-648-21 | VIBRATOR, CE | RAMIC | | | |
| R59 R60 | | METAL GLAZE | 560 560 | 5% 5% | 1/10W 1/10W | ****** | ****** | ****** | ***** | ***** | ***** | ****** |
| R61 | | METAL GLAZE | 0 | 5% | 1/10W | | | | | | | |
| R63 | | METAL GLAZE | 560 | 5% | 1/10W | | *A-1635-015-A | M2 BOARD, COI | | | | |
| R71 | 1-215-070-00 | METAL GLAZE | 18K | 5% | 1/10W | | | ***** | | | | |
| R72 | | METAL GLAZE | 18K | 5% | 1/10W 1/10W | | < CAP | ACITOR > | | , | | ř. |
| R73 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W | | | | | | | i- |
| R74 R75 | | METAL GLAZE | 18K | 5% | 1/10W | C001 | | CERAMIC CHIP | | | 5% 5% | 50V 50V |
| K/3 | 1-216-079-00 | METAL GLAZE | 18K | 5% | 1/10W | C002 C003 | 1-163-117-00 | CERAMIC CHIP | | | 5% 5% | 50V |
| | | | | | | 5003 | T TOO TT! 00 | JERESTE CHIL | | | | |



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|----------------|------------------------------|--|------------|------------|----------------|------------------------------|--|--------|------------|
| REF.NO. | PART NO. | DESCRIPTION | | REMARK | REF.NO. | PART NO. | DESCRIPTION | | REMARK |
| C004 C007 | 1-164-222-11 1-163-117-00 | CERAMIC CHIP 0.22MF CERAMIC CHIP 100PF | 5% | 25V 50V | C2020 C2021 | 1-164-222-11 1-163-113-00 | | 5% | 25V 50V |
| C008 C010 | 1-163-117-00 1-163-117-00 | | 5% 5% | 50V | C2023 | 1-124-907-11 | | 20% | 50V |
| C010 | 1-163-117-00 | CERAMIC CHIP 100PF | 5% 5% | 50V | C2024 | 1-163-117-00 | | 5% | 50V |
| C012 | 1-163-117-00 | | 5% | 50V 50V | C2025 C2027 | 1-163-11/-00 | CERAMIC CHIP 100PF CERAMIC CHIP 0.22MF | 5% | 50V 25V |
| C014 | 1-163-117-00 | | 5% | 50V | C2021 | 1-104-222-11 | CERAMIC CHIP U. ZZMF | | 25V |
| 0016 | 1 152 111 00 | | | | | < FI | LTER > | | |
| C016 C017 | 1-163-141-00 1-164-222-11 | | 5% | 50V 25V | CD001 | 1 570 106 11 | MIDDAMOD GEDAMIG | | |
| C018 | | CERAMIC CHIP 2.2MF | | 16V | CDUVI | 1-3/9-120-11 | VIBRATOR, CERAMIC | | |
| C019 | 1-124-916-11 | ELECT 22MF | 20% | 50V | , | < COI | NNECTOR > | | |
| C020 | 1-163-117-00 | CERAMIC CHIP 100PF | 5% | 50V | CN1413 | 1_605 201 11 | CONTROMOR DOLDER MO DOL | DD 40D | |
| C021 | 1-164-004-11 | CERAMIC CHIP 0.1MF | 10% | 25V | CN1415 | *1-568-881-51 | CONNECTOR, BOARD TO BOA PIN, CONNECTOR 6P | RD 4UP | |
| C022 | 1-164-004-11 | CERAMIC CHIP 0.1MF | 10% | 25V | CN1432 | | PIN, CONNECTOR 7P | | |
| C023 | 1-164-004-11 | CERAMIC CHIP 0.1MF | 10% | 25V | CN1435 | | PIN, CONNECTOR 7P | | |
| C024 | 1-164-004-11 | CERAMIC CHIP 0.1MF | 10% | 25V | | | , | | |
| C025 | 1-164-222-11 | CERAMIC CHIP 0.22MF | | 25V | | < DIC | ODE > | | |
| C026 | 1-164-222-11 | CERAMIC CHIP 0.22MF | | 25V | D001 | 8-719-027-82 | DIODE MA3039H-TX | | |
| C032 | 1-163-117-00 | CERAMIC CHIP 100PF | 5% | 50V | D2001 | 8-719-036-58 | DIODE MA3030-H(TX) | | |
| C035 C036 | | CERAMIC CHIP 0.022MF CERAMIC CHIP 0.47MF | | 50V | D2002 | | DIODE MA3047L-TX | | |
| C036 | 1-164-005-11 | CERAMIC CHIP 0.4/MF | 5% | 25V 50V | D2003 D2007 | | DIODE DAP202K | | |
| | | | 20 | 204 | D2007 | 0-/19-914-44 | DIODE DAP202K | | |
| C039 | | CERAMIC CHIP 0.0015MF | 10% | 50V | | < IC | > | | |
| C042 C044 | | CERAMIC CHIP 1MF | | 16V | | | | | |
| C522 | | CERAMIC CHIP 100PF | 5% | 50V | IC001 | | IC SDA30C162-GEG | | |
| C523 | 1-163-141-00 | CERAMIC CHIP 0.001MF CERAMIC CHIP 0.001MF | 5% 5% | 50V 50V | IC002 | | IC TMS27PC010A-15FML | | |
| 6525 | 1 103-141-00 | CHAMIC CHIP V. VOIM | 70 | 300 | IC561 | 8-752-347-92 | SOCKET, PLCC (IC002) | | |
| C524 | 1-163-113-00 | | 5% | 50V | IC562 | 8-759-998-98 | | | |
| C525 | 1-164-222-11 | | | 25V | 100 | | | | |
| C528 | 1-163-105-00 | | 5% | 50V | IC563 | | IC NJM78L05A | | |
| C529 C541 | 1-163-169-00 | CERAMIC CHIP 33PF CERAMIC CHIP 0.01MF | 5% 10% | 50V 50V | IC2003 | 8-759-188-60 | IC MB81C4256A-70PSZG | | |
| | 1 104-252-11 | CHAMIC CHIP V.VIMP | 10% | 201 | | < COI | IL > | | |
| C542 | | CERAMIC CHIP 0.022MF | 10% | 25V | | | | | |
| C543 C544 | | CERAMIC CHIP 0.0022MF | 10% | 50V | L001 | 1-408-421-00 | | | |
| C544 | 1-164-161-11 | CERAMIC CHIP 0.0022MF CERAMIC CHIP 0.1MF | 10% 10% | 50V 25V | L561 L562 | 1-408-409-00 | | | |
| C547 | 1-163-020-00 | CERAMIC CHIP 0.0082MF | 10% | 50V | L563 | 1-408-409-00 1-408-947-00 | | | |
| | | | | | L2001 | 1-410-674-31 | | | |
| C549 C550 | | CERAMIC CHIP 0.033MF | 10% | 25V | | | | | |
| C559 | 1-164-004-11 | CERAMIC CHIP 0.001MF CERAMIC CHIP 0.1MF | 5% 10% | 50V 25V | | < TRA | NSISTOR > | | |
| C560 | | CERAMIC CHIP 0.1AF | 10% | 50V | Q002 | 8-729-216-22 | TRANSISTOR 2SA1162-G | | |
| C563 | 1-163-031-11 | CERAMIC CHIP 0.01MF | 200 | 50V | Q003 | 8-729-920-74 | TRANSISTOR 2SC2412K-QR | | |
| 9564 | | | | | Q564 | 8-729-216-22 | TRANSISTOR 2SA1162-G | | |
| C564 C565 | 1-163-031-11 | CERAMIC CHIP 0.01MF | | 50V | Q565 | 8-729-920-74 | TRANSISTOR 2SC2412K-QR | | |
| C566 | 1-163-031-11 | CERAMIC CHIP 0.01MF CERAMIC CHIP 0.01MF | | 50V 50V | Q566 | 8-729-920-74 | TRANSISTOR 2SC2412K-QR | | |
| C567 | 1-163-009-11 | CERAMIC CHIP 0.001MF | 10% | 50V | Q567 | 8-729-901-01 | TRANSISTOR DTC144EK | | |
| C568 | | CERAMIC CHIP 0.001MF | 10% | 50V | Q2001 | 8-729-920-74 | TRANSISTOR 2SC2412K-QR | | |
| 05.00 | | | | | Q2002 | 8-729-920-74 | TRANSISTOR 2SC2412K-OR | | |
| C569 C570 | 1-164-161-11 | CERAMIC CHIP 0.0022MF | 10% | 50V | Q2003 | 8-729-216-22 | TRANSISTOR 2SA1162-G | | |
| C2001 | 1-162-225-11 | CERAMIC CHIP 0.33MF CERAMIC CHIP 22PF | 10% 5% | 16V 50V | Q2004 | 8-729-920-74 | TRANSISTOR 2SC2412K-QR | | |
| C2002 | | CERAMIC CHIP 22PF | 5% | 50V | Q2005 | 8-729-920-74 | TRANSISTOR 2SC2412K-QR | | |
| C2004 | | CERAMIC CHIP 0.22MF | • | 25V | Q2006 | 8-729-901-01 | TRANSISTOR DTC144EK-T146 | i | |
| C2005 | 1-163-038-00 | CERAMIC CHIP 0.1MF | | 25V | Q2008 | 8-729-901-00 | TRANSISTOR DTC124EK-T146 | | |
| C2006 | 1-163-038-00 | CERAMIC CHIP 0.1MF | | 25V | | < RES | ISTOR > | | |
| C2008 | 1-164-222-11 | CERAMIC CHIP 0.22MF | | 25V | | | | | |
| C2009 C2016 | | CERAMIC CHIP 33PF | 5% | 50V | JR552 | 1-216-296-00 | | 1/8W | |
| C2010 | 4-104-222-11 | CERAMIC CHIP 0.22MF | | 25V | JR553 | 1-216-295-00 | | 1/10W | |
| C2017 | 1-164-222-11 | CERAMIC CHIP 0.22MF | | 25V | JR555 | 1-216-296-00 | METAL GLAZE 0 5% | 1/8W | |
| C2018 | 1-164-505-11 | CERAMIC CHIP 2.2MF | | 16V | R001 | 1-216-025-00 | METAL GLAZE 100 5% | 1/10W | |
| C2019 | 1-124-916-11 | ELECT 22MF | 20% | 50V | R002 | 1-216-025-00 | | 1/10W | |
| | | | | | | | | | |





| REF.NO. | PART NO. | DESCRIPTION | ON | | REMARK | REF.NO. | PART NO. | DESCRIPTION | DN L | | | REMARK |
|--|--|---|-----------------------------------|----------------------------|---|---|--|---|-----------------------------------|----------------------------|---|----------------------------------|
| R003 R004 R005 | 1-216-049-00 1-216-049-00 1-216-295-00 | METAL GLAZE METAL GLAZE METAL GLAZE | 1K 1K 0 | 5% 5% 5% | 1/10W 1/10W 1/10W | R567 R568 R570 | 1-216-085-00 1-216-109-00 1-216-049-00 | METAL GLAZE | 33K 330K 1K | 5% 5% 5% | 1/10W 1/10W 1/10W | |
| R006 R007 R008 R010 R011 | 1-216-049-00 1-216-073-00 1-216-049-00 1-216-049-00 1-216-049-00 | METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE | 1K 10K 1K 1K 1K | 5% 5% 5% 5% | 1/10W 1/10W 1/10W 1/10W 1/10W | R2001 R2002 R2003 R2004 R2005 | 1-216-065-00 1-216-043-00 1-216-065-00 1-216-037-00 1-216-041-00 | METAL GLAZE | 4.7K 560 4.7K 330 470 | 5% | 1/10W 1/10W 1/10W 1/10W 1/10W | |
| R012 R013 R014 R016 R017 | 1-216-049-00 1-216-049-00 1-216-049-00 1-216-045-00 1-216-049-00 | METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE | 1K 1K 1K 680 1K | 5% 5% 5% 5% 5% | 1/10W 1/10W 1/10W 1/10W 1/10W | R2007 R2008 R2009 R2010 R2011 | 1-216-073-00 1-216-025-00 1-216-057-00 1-216-025-00 1-216-057-00 | METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE | 10K 100 2.2K 100 2.2K | 5% 5% 5% 5% | 1/10W 1/10W 1/10W 1/10W 1/10W | |
| R018 R019 R020 R021 R022 | 1-216-041-00 1-216-049-00 1-216-049-00 1-216-065-00 1-216-065-00 | METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE | 470 1K 1K 4.7K 4.7K | 5% 5% 5% 5% | 1/10W 1/10W 1/10W 1/10W 1/10W | R2012 R2013 R2014 R2015 R2016 | 1-216-029-00 1-216-029-00 1-216-029-00 1-216-089-91 1-216-089-91 | | 150 150 150 47K 47K | 5% 5% 5% 5% 5% | 1/10W 1/10W 1/10W 1/10W 1/10W | |
| R023 R024 R025 R026 R027 | 1-216-025-00 1-216-049-00 1-216-049-00 1-216-049-00 1-216-049-00 | METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE | 100 1K 1K 1K 1K | 5% 5% 5% 5% | 1/10W 1/10W 1/10W 1/10W 1/10W | R2017 R2018 R2019 R2020 R2021 | 1-216-081-00 1-216-081-00 1-216-081-00 1-216-057-00 1-216-057-00 | METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE | 22K 22K 22K 2.2K 2.2K | 5% 5% 5% 5% | 1/10W 1/10W 1/10W 1/10W 1/10W | |
| R028 R030 R032 R033 R034 | 1-216-075-00 1-216-049-00 1-216-049-00 1-216-049-00 1-216-057-00 | METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE | 12K 1K 1K 1K 2.2K | 5% 5% 5% 5% | 1/10W 1/10W 1/10W 1/10W 1/10W | R2025 R2026 R2028 R2030 R2032 | 1-216-063-00 1-216-065-00 1-216-055-00 1-216-295-00 1-216-049-00 | METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE | 3.9K 4.7K 1.8K 0 1K | 5% 5% 5% 5% | 1/10W 1/10W 1/10W 1/10W 1/10W | |
| R035 R038 R049 R050 R051 | 1-216-057-00 1-216-073-00 1-216-049-00 1-216-073-00 1-216-081-00 | METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE | 2.2K 10K 1K 10K 22K | 5% 5% 5% 5% 5% | 1/10W 1/10W 1/10W 1/10W 1/10W | R2033 R2035 R2036 R2037 | 1-216-295-00 1-216-075-00 1-216-049-00 1-216-049-00 | | 0 12K 1K 1K | 5% 5% 5% 5% | 1/1 0W 1/1 0W 1/1 0W 1/1 0W | |
| R052 R053 R054 R055 R067 | 1-216-073-00 1-216-065-00 1-216-081-00 1-216-081-00 1-216-043-00 | METAL GLAZE | 10K 4.7K 22K 22K 560 | 5% 5% 5% 5% 5% | 1/10W 1/10W 1/10W 1/10W 1/10W | X2001 | 1-579-965-21 | | ***** | **** | **** ** | ****** |
| R068 R069 R070 R071 | 1-216-037-00 1-216-037-00 1-216-198-91 | METAL GLAZE METAL GLAZE | 330 330 1K | 5% 5% 5% 5% | 1/10W 1/10W 1/10W 1/8W | | *A-1638-042-A < CAP | C BOARD, COMP: | LETE **** | | | |
| R535 R536 R538 R539 R541 | 1-216-057-00 1-216-057-00 1-216-025-00 1-216-657-11 1-216-049-00 | METAL GLAZE METAL GLAZE METAL CHIP | 2.2K 2.2K 100 1.8K 1K | | 1/10W 1/10W 1/10W 1/10W 1/10W | C701 C703 C705 C708 C709 | | ELECT | | | 20% 10% 10% 10% | 2KV 250V 2KV 50V 50V |
| R542 R544 R545 R546 R547 R551 | 1-216-025-00 1-216-085-00 1-216-033-00 1-216-061-00 1-216-049-00 | METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE | 33K 220 3.3K 1K | 5% | 1/10W 1/10W 1/10W 1/10W 1/10W | C710 C711 C712 C713 C714 | 1-101-880-00 1-163-121-00 1-163-121-00 1-163-121-00 | CERAMIC CHIP 1 CERAMIC CHIP 1 CERAMIC CHIP 1 | 17PF 150PF 150PF 150PF | | 10% 5% 5% 5% 5% | 50V 50V 50V 50V 50V |
| R552 | 1-216-049-00 1-216-097-00 | | 1K 100K | 5% 5% | 1/10W 1/10W | C716 | 1-124-478-11 | | LOOMF | 2 | 20% | 25V |
| R553 R559 R560 R564 | 1-216-085-00 1-216-049-00 1-216-073-00 1-216-091-00 | METAL GLAZE METAL GLAZE METAL GLAZE | 33K 1K 10K 56K | 5% 5% 5% 5% | 1/10W 1/10W 1/10W 1/10W 1/10W | CN0002 CN0403 CN0421 | 1-508-786-00 1-564-511-11 *1-508-768-00 | PLUG, CONNECTO | R 8P | | | |
| R565 R566 | 1-216-065-00 1-216-073-00 | | 4.7K 10K | 5% 5% | 1/10W 1/10W | | | | | | | |



for safety.

Replace only with the part number specified.

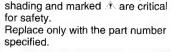


| REF.NO. | PART NO. | DESCRIPTIO | N | | | REMA | RK | REF.NO. | PART NO. | DESCRIPTION | DESCRIPTION | | | REMARK |
|--------------------------------------|--|--|------------------------------------|----------------|------------------------------------|------|----|--------------------------------------|--|---|---|----------------------|---|----------------------------------|
| | < DIO | DE > | | | | | | R720 R722 | 1-249-417-11 1-247-713-11 | | 1K 1K | 5% 5% | 1/4W 1/4W | |
| D701 D702 D703 D704 D705 | 8-719-901-33 8-719-901-33 8-719-901-33 | DIODE 1SS133 DIODE 1SS133 DIODE 1SS133 DIODE 1SS133 | | | | | | R724 R725 R726 R727 R728 | 1-249-417-11 1-216-067-00 1-216-067-00 1-216-067-00 1-216-037-00 | METAL GLAZE METAL GLAZE METAL GLAZE | 1K 5.6K 5.6K 5.6K 330 | 5% | 1/4W 1/10W 1/10W 1/10W 1/10W | |
| D706 D707 D708 D709 D710 | | DIODE 1SS133 DIODE 1SS133 DIODE 1SS133 | | | | | | R729 R730 R731 R732 R733 | 1-216-037-00 1-216-037-00 1-216-017-00 1-216-017-00 1-216-017-00 | METAL GLAZE METAL GLAZE | 330 330 47 47 47 | 5% 5% 5% 5% | 1/10W 1/10W 1/10W 1/10W 1/10W | |
| D713 | 8-719-908-03 | | | | | | | R734 | 1-202-549-00 | SOLID | 100 | 20% | 1/2W | |
| J701 ± | < JAC 1-526-990-21 | | | | | | | R735 R738 R739 | 1-216-049-00 1-216-025-00 1-216-025-00 | METAL GLAZE METAL GLAZE | 1K 100 100 | 5% 5% 5% | 1/10W 1/10W 1/10W | |
| | < COI | L > | | | | | | R740 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W | |
| L701 L703 L705 L707 | 1-410-667-31 1-408-609-41 1-408-609-41 1-408-609-41 | INDUCTOR INDUCTOR | 22UH 33UH 33UH 33UH | | | | | R741 R742 R743 R747 R749 | 1-216-089-91 1-216-029-00 1-249-434-11 1-216-489-11 1-216-490-11 | METAL GLAZE CARBON METAL OXIDE | 47K 150 27K 27K 39K | 5% 5% 5% 5% | 1/10W 1/10W 1/4W 3W 3W | |
| | < TRA | NSISTOR > | | | | | | R751 R753 | 1-215-926-00 1-216-073-00 | | 33K 10K | 5% 5% | 3W 1/10W | F |
| Q701 Q702 Q703 | 8-729-906-70 8-729-906-70 | TRANSISTOR BE TRANSISTOR BE TRANSISTOR BE | '871 '871 | | | | | R753 R758 R759 R760 | 1-249-419-11 1-249-419-11 1-249-419-11 | CARBON CARBON | 1.5K 1.5K 1.5K | 5% 5% | 1/4W 1/4W 1/4W 1/4W | |
| Q704 Q705 | | TRANSISTOR BE | | | | | | | < VAR | IABLE RESISTO | R > | | | |
| Q706 Q707 Q708 | 8-729-200-17 | TRANSISTOR BE TRANSISTOR 25 TRANSISTOR 25 | A1091- | | | | 1 | RV701 RV702 | | RES, ADJ, ME RES, ADJ, ME | | | | |
| Q709 Q710 | 8-729-200-17 | TRANSISTOR 25 TRANSISTOR 25 | A1091- | 0 | | | | ***** | ****** | ****** | ***** | **** | ***** | ***** |
| 0711 | | TRANSISTOR 25 | | | | | | | *A-1640-109-A | D5 BOARD, CO | | | | |
| Q712 Q713 Q714 | 8-729-216-22 | TRANSISTOR 25 TRANSISTOR 25 TRANSISTOR 25 | A1162- | G | | | | | < CAF | ACITOR > | | | | |
| | < RES | SISTOR > | | | | | | C803 C804 | 1-136-161-00 | | 0.0022 0.047M | | 5% 5% | 50V 50V |
| JR701 JR703 | 1-216-296-00 1-216-296-00 | | 0 | 5% 5% | 1/8W 1/8W | | | C806 C807 C823 | 1-124-907-11 1-106-383-00 1-136-177-00 | MYLAR | 10MF 0.047M 1MF | IF | 20% 10% 5% | 50V 100V 50V |
| R701 R702 R703 R704 R705 | 1-202-848-00 1-202-838-00 1-202-838-00 1-202-842-11 1-216-398-11 | SOLID SOLID SOLID | | 20% 20% | 1/2W 1/2W 1/2W 1/2W 3W | F | | C827 C847 C852 C853 C857 | 1-136-177-00 1-164-337-11 1-164-299-11 1-124-477-11 1-124-902-00 | CERAMIC CHIP CERAMIC CHIP ELECT | 1MF 2.2MF 0.22MF 47MF 0.47MF | | 5% 10% 20% 20% | 50V 16V 25V 25V 50V |
| R706 R707 R708 R709 R710 | 1-249-421-11 1-249-421-11 1-249-421-11 | CARBON | 5.6 2.2K 2.2K 2.2K 15K | 5% | 3W 1/4W 1/4W 1/4W 2W | F | | C861 C866 C870 C871 C872 | 1-130-777-00 1-137-364-11 1-137-364-11 1-130-651-00 1-124-907-11 | FILM FILM FILM | 0.1MF 0.001M 0.001M 0.001M 10MF | F | 5% 5% 5% 2% 20% | 63V 50V 50V 100V 50V |
| R711 R712 R713 R714 | 1-202-820-11 1-215-899-11 1-202-820-11 1-215-899-11 | METAL OXIDE | 1.5K 15K 1.5K 15K | 5% | 1/2W 2W 1/2W 2W | F | | C873 | 1-137-364-11 < CON | FILM NECTOR > | 0.001M | F | 5% | 50 V |
| R715 | 1-202-820-11 | | 1.5K | | 1/2W | • | | CN2044 | *1-573-299-11 | CONNECTOR, B | OARD TO | BOAR | D 10P | |
| R716 R717 R718 | 1-247-700-11 1-247-807-31 1-247-700-11 | CARBON | 100 100 100 | 5% 5% 5% | 1/4W 1/4W 1/4W | F | | D804 | < DIC 8-719-901-33 | DIODE > | | | | |
| | | | | | | | | | | | | | | |

| D 5 |
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| | | | | | | | | | | <u>D</u> | | |
|--------------|------------------------------|---------------|----------|----------|-------|-------|--------------|------------------------------|--------------|------------------|-----------|--------|
| REF.NO. | PART NO. | DESCRIPTION | N | | RE | MARK | REF.NO. | PART NO. | DESCRIPTION | DN | | REMARK |
| D808 D818 | 8-719-109-88 8-719-109-93 | DIODE RD5.6ES | | | | | C615 | 1-128-127-51 | ELECT | 2200MF | 20% | 25V |
| D821 | 8-719-914-44 | DIODE DAP202K | | | | | C616 | 1-162-115-00 | CERAMIC | 330PF | 10% | 1KV |
| D827 | | DIODE MTZJ-T- | | | | | C617 | 1-162-116-00 | CERAMIC | 680PF | 10% | 2KV |
| 202. | 0 /13 305 30 | | | | | | C618 | 1-162-134-11 | CERAMIC | 470PF | 10% | 2KV |
| D830 | 8-719-914-44 | DIODE DAP202K | | | | | C619 | 1-102-030-00 | | 330PF | 10% | 500V |
| D831 | | DIODE DAN202K | | | | | C620 | 1-164-299-11 | CERAMIC CHIP | 0.22MF | 10% | 25V |
| D832 | | DIODE DAP202K | | | | | | | | | | |
| D833 | | DIODE DAP202K | | | | | C621 | 1-124-347-00 | ELECT | 100MF | 20% | 160V |
| 2000 | 0 ,1, ,1, 11 | 21021 | | | | | C622 | 1-128-320-11 | | 2200MF | 20% | 16V |
| | < IC | > | | | | | C623 | 1-102-030-00 | | 330PF | 10% | 500V |
| | , 20 | • | | | | | C624 | 1-126-800-51 | | 2200MF | 20% | 35V |
| IC802 | 8-759-103-93 | IC UPC393C | | | | | C625 | 1-126-800-51 | ELECT | 2200MF | 20% | 35V |
| | < TRA | NSISTOR > | | | | | C627 | 1-136-553-11 | | 0.0015MF | 10% | 400V |
| | | | | | | | C628 | 1-124-477-11 | | 47MF | 20% | 25V |
| Q804 | 8-729-216-22 | TRANSISTOR 2S | | | | | C629 | 1-124-907-11 | ELECT | 10MF | 20% | 50V |
| Q805 | 8-729-216-22 | TRANSISTOR 2S | A1162-G | | | | C631 | 1-163-075-00 | | | 10% | 25V |
| Q812 Q818 | 8-729-920-74 8-729-216-22 | | - | l | | | C632 | 1-137-372-11 | FILM | 0.022MF | 5% | 50V |
| 2010 | 0 725 210 22 | IMMODIDION DD | | | | | C633 | 1-164-299-11 | CERAMIC CHIP | 0.22MF | 10% | 25V |
| | < RES | ISTOR > | | | | | C636 | 1-130-777-00 | | 0.1MF | 5% | 63V |
| | | | | | | | C640 | 1-124-916-11 | ELECT | 22MF | 20% | 50V |
| JR802 | 1-216-295-00 | METAL GLAZE | 0 5% | 6 1/1 | 10W | | C645 | 1-128-571-11 | ELECT | 56MF | 20% | 50V |
| JR803 | 1-216-295-00 | METAL GLAZE | 0 5% | 6 1/1 | 10W | | C646 | 1-124-798-11 | ELECT | 1MF | 20% | 160V |
| JR804 | 1-216-295-00 | METAL GLAZE | 0 5% | 6 1/1 | 10W | | | | | | | |
| * | | | | | | | C647 | 1-124-907-11 | ELECT | 10MF | 20% | 50V |
| R802 | 1-216-077-00 | METAL GLAZE | 15K 5% | 6 1/1 | 10W | | C801 | 1-137-116-11 | | 1MF | 5% | 200V |
| R805 | 1-216-679-11 | | 15K 0. | 50% 1/1 | 10W | | C805 | 1-124-902-00 | | 0.47MF | 20% | 50V |
| R806 | 1-216-061-00 | METAL GLAZE | 3.3K 5% | | 10W | | C808 | 1-162-114-00 | | 0.0047MF | | 2KV |
| R808 | 1-216-085-00 | METAL GLAZE | 33K 5% | | 10W | | C809 | 1-124-808-51 | ELECT | 10MF | 20% | 200V |
| R809 | 1-216-097-00 | METAL GLAZE | 100K 5% | 6 1/1 | 10W | | | | | | 4.00 | |
| | | | | | | | C810 | | CERAMIC CHIP | | 10% | 50V |
| R813 | 1-216-065-00 | METAL GLAZE | 4.7K 59 | | 10W | | C812 | 1-162-318-11 | | 0.001MF | 10% | 500V |
| R814 | 1-216-091-00 | | 56K 59 | | 10W | | C813 | 1-108-704-11 | | 0.1MF | 10% | 200V |
| R815 | 1-216-081-00 | METAL GLAZE | 22K 59 | | 10W | | C815 | 1-162-117-00 | | 100PF | 10% | 500V |
| R820 | 1-216-097-00 | METAL GLAZE | 100K 59 | | 10W | | C819 | 1-126-103-11 | ELECT | 470MF | 20% | 16V |
| R824 | 1-216-675-11 | METAL CHIP | 10K 0. | .50% 1/3 | 10W | | 2001 | 1 127 062 11 | DTTW | 0.01045 | 20. | 0 |
| 2000 | 1 016 101 00 | WOMAN OF ARE | 114 50 | . 4/ | 1.017 | | C821 C822 | 1-137-063-11 1-162-116-00 | | 0.018MF 680PF | 3% 10% | 2KV |
| R828 | 1-216-121-00 | | 1M 59 | | 10W | | C824 | 1-137-366-11 | | 0.0022MF | 5% | 50V |
| R829 | 1-249-429-11 | CARBON | 10K 59 | · 1/4 | 4W F | | C825 | 1-162-116-00 | | 680PF | 10% | 2KV |
| R830 R832 | 1-216-687-11 | | 33K 0. | | 10W | | C826 | 1-137-515-11 | FILM | 0.056MF | 3% | 400V |
| R834 | 1-216-083-00 1-216-079-00 | METAL GLAZE | 18K 59 | | 10W | | C020 | 1-137-313-11 | FILM | 0.050HF | 3.0 | 2001 |
| V07.7 | 1-210-0/9-00 | METAL GLAZE | TOY 2 | 0 1/. | TOM | | C828 | 1-136-557-11 | FTI.M | 0.0033MF | 10% | 400V |
| R835 | 1-216-057-00 | METAL CLAZE | 2.2K 59 | 1/ | 10W | | C830 | 1-136-189-00 | | 0.1MF | 5% | 250V |
| R837 | 1-216-695-11 | | | .50% 1/ | | | C831 | 1-123-932-00 | | 4.7MF | 20% | 160V |
| R838 | | METAL GLAZE | 10K 59 | | 10W | | C832 | 1-124-477-11 | | 47MF | 20% | 25V |
| R846 | 1-216-671-11 | METAL CHIP | 6.8K 0 | | | | C833 | 1-136-126-00 | | 0.82MF | 5% | 400V |
| R847 | 1-216-699-11 | METAL CHIP | 100K 0 | | | | | | | | | |
| | | | | | | | C834 | 1-137-114-11 | FILM | 0.68MF | 5% | 200V |
| R867 | 1-216-113-00 | METAL GLAZE | 470K 59 | % 1/ | 10W | | C835 | 1-124-480-11 | ELECT | 470MF | 20% | 25V |
| R884 | 1-216-693-11 | METAL CHIP | 56K 0 | .50% 1/3 | 10W | | C836 | 1-102-228-00 | CERAMIC | 470PF | 10% | 5007 |
| R891 | 1-216-079-00 | METAL GLAZE | 18K 59 | % 1/: | 10W | | C837 | 1-129-702-00 | FILM | 0.001MF | 10% | 400V |
| | | | | | | | C838 | 1-108-704-11 | MYLAR | 0.1MF | 10% | 200V |
| ****** | ******** | ******* | ****** | ***** | **** | ***** | | | | | - 0 | 0.50** |
| | | | | | | | C839 | 1-123-950-00 | | 47MF | 20% | 250V |
| | *A-1642-097-A | D BOARD, COM | | | | | C840 | 1-124-480-11 | | 470MF | 20% | 25V |
| | | ******** | **** | | | | C841 | 1-102-228-00 | | 470PF | 10% | 500V |
| | | | | | | | C842 | 1-136-208-11 | | 0.068MF | 10% | 250V |
| | < CA | PACITOR > | | | | | C843 | 1-124-907-11 | ELECT | 10MF | 20% | 50V |
| C601 | 1-130-202-00 | FILM | 0.022MF | 10% | 6 4 | 100V | C846 | 1-123-024-21 | ELECT | 33MF | | 160V |
| C602 | 1-162-116-00 | | 680PF | 10% | | KV | C851 | 1-137-364-11 | FILM | 0.001MF | 5% | 50V |
| C603 | 1-164-503-61 | | 0.0022MF | 20% | | 100V | C854 | 1-161-754-00 | CERAMIC | 0.001MF | 10% | 2KV |
| C605 | 1-124-910-11 | | 47MF | 20% | 6 5 | 0V | C863 | 1-106-383-00 | MYLAR | 0.047MF | 105 | 100V |
| C608 | 1-124-903-11 | | 1MF | 20% | 6 5 | 50V | C869 | 1-130-777-00 | FILM | 0.1MF | 5% | 63V |
| | | | | | | | | | | | | |
| C611 | 1-102-002-00 | | 680PF | 10% | | V000 | C875 | 1-102-038-00 | | 0.001MF | | 500V |
| C612 | 1-130-481-00 | | 0.0068MF | | | 0V | C877 | 1-124-902-00 | | 0.47MF | 20% | 50V |
| C613 | 1-129-722-00 | | 0.047MF | 10% | | 30V | C878 | | CERAMIC CHIP | | 105 | 50V |
| C614 | 1-102-030-00 | CERAMIC | 330PF | 10% | 6 5 | 500V | C879 | 1-102-228-00 | CERAMIC | 470PF | 105 | 500V |
| | | | | | | | | | | | | |





| REF.NO. | PART NO. | DESCRIPTION | | REMARK | REF.NO. | PART NO. | DESCRIPTION REMARK |
|---|--|---|--------------------------------------|---|--|--|--|
| C882 C1501 C1502 C1503 C1504 C1505 | 1-124-903-11 | CERAMIC CHIP 0.001MF ELECT 1MF CERAMIC CHIP 0.001MF ELECT 470MF | 10% 5% 20% 5% 20% 20% | 100V 50V 50V 50V 25V 50V | D826 D828 D1501 D1503 D1504 | 8-719-901-33 8-719-914-43 8-719-908-03 | DIODE DAN202K DIODE 1SS133 DIODE DAN202K DIODE GP08D DIODE MTZJ-3.6A |
| C1506 C1507 C1508 C1509 C1511 | 1-136-202-11 1-137-423-11 1-124-480-11 1-124-767-00 1-124-907-11 | MYLAR 0.15MF ELECT 470MF ELECT 2.2MF | 5% 10% 20% 20% 20% | 63V 100V 25V 50V 50V | IC601 IC602 IC603 fi IC801 IC803 | 8-759-908-15 8-749-923-44 8-759-103-93 | IC TDA4605-3 IC TL431CLP IC SPH617G-1 IC UPC393C IC MC78L12ACPRP |
| C1512 C1514 C1515 | | CERAMIC CHIP 0.1MF | 20% 10% 10% | 25V 25V 25V | IC1501 | 8-759-506-46 < COI | |
| | < COM | NECTOR > | | | L602 | 1-410-397-21 | FERRITE BEAD INDUCTOR 1.1UH |
| DY1 CN0004 CN0009 | | CONNECTOR PIN (DY) 6P PIN, CONNECTOR (5MM PITCH | | | L603 L604 L605 L606 | 1-410-396-41 | FERRITE BEAD INDUCTOR 0.45UH FERRITE BEAD INDUCTOR 0.45UH INDUCTOR 18UH |
| CN0504 CN0505 CN0506 | 1-568-878-51 1-564-511-11 *1-568-880-51 *1-568-880-51 | PIN, CONNECTOR (5MM PITCH PIN, CONNECTOR 3P PLUG, CONNECTOR 8P PIN, CONNECTOR 5P PIN, CONNECTOR 5P | | | L610 L622 L623 L802 | 1-410-397-21 1-412-533-21 1-412-533-21 1-408-947-00 | INDUCTOR 47UH |
| CN0519 CN0521 CN0523 CN0524 CN0525 | 1-573-296-11 *1-568-878-51 | PIN, CONNECTOR 3P PIN, CONNECTOR (5MM PITCH CONNECTOR, BOARD TO BOARD PIN, CONNECTOR 3P PIN, CONNECTOR (PC BOARD) | 1) 3P | | L803 L804 L807 L808 | 1-420-872-00 | COIL, AIR CORE FERRITE BEAD INDUCTOR 0.45UH INDUCTOR 180UH |
| CN0526 CN0529 CN0544 CN5521 | 1-508-784-00 1-573-296-11 | PIN, CONNECTOR 6P PIN, CONNECTOR (5MM PITCH CONNECTOR, BOARD TO BOARD PIN, CONNECTOR 3P |) 1P 10P | | L811 L812 | 1-459-104-00 | COIL, WITH CORE COIL, FERRITE (PMC) INDUCTOR 3.3UH |
| | < DIO | | | | L813 L817 | 1-412-519-11 | INDUCTOR 3.3UH TRANSFORMER, LINEARITY (HLT) |
| D601 D602 D604 D605 D606 | 8-719-914-44 8-719-302-43 8-719-110-39 8-719-975-56 | DIODE DAP202K DIODE RGP10GPKG23 DIODE RD15ESB1 DIODE 1SS120A DIODE RGP10GPKG23 | | | L1501 L1502 L1503 | 1-459-104-00 1-412-525-21 1-412-525-21 1-412-525-21 | COIL, WITH CORE INDUCTOR 10UH INDUCTOR 10UH INDUCTOR 10UH |
| D607 | 8-719-302-43 | DIODE RGP10GPKG23 | | | | | LINK > |
| D608 D616 D619 D620 | 8-719-300-33 8-719-110-31 8-719-914-43 8-719-901-33 | DIODE RD12ESB2 DIODE DAN202K | | | PRANG + | 1-532-686-01 | LINK, IC 2.7A LINK, IC 2.7A LINK, IC 2.7A LINK, IC 2.7A |
| D621 D624 D801 D802 D803 | 8-719-302-43 | DIODE R2K-V1 DIODE RGP02-20EL-6394 | | | Q601 Q602 | 8-729-016-14 4-200-001-01 8-729-177-22 | NSISTOR > TRANSISTOR BUZ91A-E3155 HOLDER, IC (IC601) TRANSISTOR 2SB772-Q |
| D809 D811 D812 D813 | 8-719-110-03 8-719-300-33 8-719-908-03 8-719-908-03 | DIODE RD7.5ESB2 DIODE ERB44-06TP1 DIODE GP08D DIODE GP08D | | | Q603 Q604 Q605 | 8-729-209-15 8-729-255-12 | TRANSISTOR DTC114EK TRANSISTOR 2SD2012 TRANSISTOR 2SC2551-0 TRANSISTOR 2SA1162-G |
| D814 D815 D816 D822 | 8-719-028-29 8-719-302-43 8-719-979-85 | DIODE RU30ALFS1 DIODE EL1Z | | | Q611 Q612 Q613 Q802 | 8-729-119-78 8-729-903-29 8-729-216-22 | TRANSISTOR 2SC2785-HFE TRANSISTOR DTA144TK TRANSISTOR 2SA1162-G TRANSISTOR 2SB734-34 |
| D824 D825 | 8-719-028-72 8-719-914-43 | DIODE RGP02-17EL-6433 | | | Q807 Q813 Q1501 Q1502 | 8-729-140-96 8-729-920-74 | TRANSISTOR 2SC2688-LK TRANSISTOR 2SD774-34 TRANSISTOR 2SC2412K-QR TRANSISTOR DTC144EK |



| REF.NO. | PART NO. | DESCRIPTION | N | | | REMARK | REF.NO. | PART NO. | DESCRIPTION | ON | | | REMARK |
|--------------------------------------|--|---|--|----------------------------|--------------------------|--------|---|--|---|-------------------------------------|-------------------------------|---|------------------|
| Q1503 Q1504 | 8-729-216-22 8-729-901-01 < RES | | | | | | R821 R822 R823 R825 | 1-216-481-11 1-216-481-11 1-216-065-00 1-216-342-11 | METAL OXIDE METAL OXIDE METAL GLAZE METAL OXIDE | 1.2K 1.2K 4.7K 0.27 | 5% 5% 5% 5% | 3W 3W 1/10W 1W | F F |
| R602 R603 R604 R605 R606 | 1-216-081-00 1-215-901-00 1-260-200-11 1-216-295-00 1-216-035-00 | METAL OXIDE CARBON METAL GLAZE | 22K 55 33K 55 240K 55 0 55 270 55 | % 2W % 1/2 % 1/2 | | F | R826 R833 R836 R839 R840 | 1-216-166-00 1-216-105-00 1-216-242-00 1-216-063-00 1-216-097-00 | METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE | 47 220K 68K 3.9K 100K | 5% 5% 5% 5% | 1/8W 1/10W 1/8W 1/10W 1/10W | |
| R607 R608 R609 R610 R611 | 1-216-210-00 1-215-903-11 1-249-395-11 1-247-881-00 1-215-886-11 | METAL OXIDE CARBON CARBON | 3.3K 5 68K 5 15 5 120K 5 100 5 | % 2W % 1/4 % 1/4 | 4W 4W | F F | R841 R842 R848 R849 R851 | 1-249-397-11 1-216-454-11 1-215-885-00 1-215-884-11 1-247-743-11 | CARBON METAL OXIDE METAL OXIDE METAL OXIDE CARBON | 22 390 68 47 220 | 5% 5% 5% 5% 5% | 1/4W 2W 2W 2W 1/2W | F F F F |
| R612 R613 R614 R615 R618 | 1-247-894-11 1-216-260-11 1-216-488-11 1-216-488-11 1-216-449-11 | METAL GLAZE METAL OXIDE METAL OXIDE | 430K 5 390K 5 18K 5 18K 5 56 5 | % 1/1 % 3W % 3W | 8W | F F | R852 R853 R854 R855 R858 | 1-249-389-11 1-249-443-11 1-249-443-11 1-202-826-00 1-249-423-11 | CARBON CARBON CARBON SOLID CARBON | 4.7 0.47 0.47 4.7K 3.3K | 5% 5% 5% 20% 5% | 1/4W 1/4W 1/4W 1/2W 1/4W | F |
| R620 R621 R622 R623 R625 | 1-216-045-00 1-216-659-11 1-216-041-00 1-216-073-00 1-216-449-11 | METAL CHIP METAL GLAZE METAL GLAZE | 680 5 2.2K 0 470 5 10K 5 56 5 | .50% 1/1 % 1/1 % 1/1 | 10W 10W | | R864 R868 R871 R872 R873 | 1-216-686-11 1-249-426-11 1-214-907-00 1-249-393-11 1-249-393-11 | METAL CHIP CARBON METAL CARBON CARBON | 30K 5.6K 56K 10 10 | 0.50% 5% 1% 5% 5% | 1/10W 1/4W 1/2W 1/4W 1/4W | F |
| R626 R627 R629 R630 R631 | 1-216-635-11 1-249-398-11 1-215-464-00 1-249-421-11 1-216-398-11 | CARBON METAL CARBON | 220 0 27 5 62K 1 2.2K 5 5.6 5 | % 1/4 % 1/4 | 4W 4W 4W | F F | R876 R877 R889 R893 R894 | 1-249-421-11 1-215-907-11 1-216-089-91 1-215-878-00 1-216-264-00 | CARBON METAL OXIDE METAL GLAZE METAL OXIDE METAL GLAZE | 2.2K 22 47K 33K 560K | 5% 5% 5% 5% 5% | 1/4W 3W 1/10W 1W 1/8W | F F |
| R633 R634 R635 R636 R637 | 1-249-415-11 1-215-477-00 1-216-073-00 1-215-925-11 1-216-113-00 | METAL METAL GLAZE METAL OXIDE | 680 5 220K 1 10K 5 22K 5 470K 5 | % 1/: % 3W | 4W 10W | F | R895 R897 R898 R899 R1501 | 1-216-095-00 1-216-089-91 1-216-262-00 1-249-377-11 1-216-676-11 | METAL GLAZE METAL GLAZE METAL GLAZE CARBON METAL CHIP | 82K 47K 470K 0.47 11K | 5% 5% 5% 5% 0.50% | 1/10W 1/10W 1/8W 1/4W 1/10W | F |
| R638 R639 R640 R642 R643 | 1-216-073-00 1-216-089-91 1-207-905-00 1-216-374-00 1-249-417-11 | METAL GLAZE WIREWOUND METAL OXIDE | 2.7 5 | % 1/: 0% 2W | | | R1502 R1503 R1504 R1505 R1506 | 1-216-666-11 1-216-065-00 1-216-081-00 1-216-081-00 1-216-053-00 | METAL CHIP METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE | 4.3K 4.7K 22K 22K 1.5K | 5% 5% 5% | 1/10W 1/10W 1/10W 1/10W 1/10W | 1 1 1 |
| R645 R646 R647 R648 R649 | 1-215-464-00 1-216-097-00 1-216-059-00 1-249-424-11 1-216-270-00 | METAL GLAZE METAL GLAZE CARBON | 62K 1 100K 5 2.7K 5 3.9K 5 1M 5 | % 1/3 % 1/3 | 10W 10W 4W | | R1508 R1509 R1510 R1511 R1512 | 1-216-683-11 1-216-689-11 1-249-382-11 1-215-888-00 1-216-370-11 | METAL CHIP CARBON METAL OXIDE | 22K 39K 1.2 220 1.2 | | 1/10W 1/10W 1/4W 2W 2W | I |
| R650 R651 R652 R653 R654 | 1-216-113-00 1-216-069-00 1-216-109-00 1-216-065-00 1-215-904-11 | METAL GLAZE METAL GLAZE METAL GLAZE | 470K 5 6.8K 5 330K 5 4.7K 5 100K 5 | % 1/3 % 1/3 % 1/3 | 10W 10W 10W 10W | | R1514 R1550 R1551 R1552 FS046 | 1-216-049-00 1-216-113-00 1-216-065-00 1-216-113-00 1-249-399-11 | METAL GLAZE | 1K 470K 4.7K 470K 33 | 5% | 1/10W 1/10W 1/10W 1/10W 1/10W | 1 1 1 |
| R655 R656 R657 R658 R801 | 1-216-065-00 1-216-033-00 1-247-811-31 1-249-403-11 1-216-069-00 | METAL GLAZE CARBON CARBON | 4.7K 5 220 5 150 5 68 5 6.8K 5 | % 1/: % 1/: % 1/: | | | RV601 | 1-241-628-11 | IABLE RESISTOR RES, ADJ, CAR NSFORMER > | | 2K | | |
| R804 R807 R811 R812 R818 | 1-217-778-11 1-216-037-00 1-216-033-00 1-216-061-00 1-216-685-11 | METAL GLAZE METAL GLAZE METAL GLAZE | 330 5 220 5 3.3K 5 | % 1/: % 1/: | 10W 10W 10W 10W | | T801 1 T803 T895 | | TRANSFORMER A HDT TRANSFORMER, | SSY, FI FERRITI | YBACK (DFT) | (N)A-1 | W2602A2) |
| R819 | 1-247-755-11 | CARBON | 1.8K 5 | % 1/: | 2W | F | ****** | ****** | ********* | ***** | ***** | ******* | · * * * * * * * |



| REF.NO. | PART NO. | DESCRIPTION | | | REMARK | REF.NO. | PART NO. | DESCRIPTI | ON | | REMARK |
|---|--|--|---|-------------------------------|-----------------------------------|---|--|--|---|---------------------------------|-------------------------------------|
| | *A-1642-116-A < CAP | D4 BOARD, CO | | | | R1842 R1843 R1844 R1847 | 1-260-111-11 1-216-057-00 1-216-057-00 1-249-399-11 | METAL GLAZE METAL GLAZE | 10K 5% 2.2K 5% 2.2K 5% 33 5% | 1/10 1/10 | W W |
| C1841 C1844 C1845 C1851 C1854 | 1-137-371-11 1-106-383-00 1-130-785-11 1-126-103-11 1-124-910-11 | MYLAR MYLAR ELECT | 0.015MF 0.047MF 0.47MF 470MF 47MF | 5% 5% 10% 20% 20% | 50V 200V 100V 16V 50V | R1848 R1849 R1852 R1853 R1854 | 1-216-434-11 1-260-111-11 1-216-089-91 1-216-691-11 1-216-073-00 | METAL GLAZE METAL CHIP | 1.8K 5% 10K 5% 47K 5% 47K 0. 10K 5% | 1/2W 1/10 50% 1/10 | T W W |
| C1855 C1858 C1859 C1860 C1861 | 1-164-232-11 1-163-275-11 1-163-275-11 1-163-989-11 1-163-989-11 | CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP | 0.001MF 0.001MF 0.033MF | 10% 5% 5% 10% 10% | 50V 50V 50V 25V 25V | R1860 R1861 R1862 R1863 R1873 | 1-216-021-00 1-216-073-00 1-216-055-00 1-218-758-11 1-216-474-11 | METAL GLAZE METAL GLAZE METAL CHIP | 68 5% 10K 5% 1.8K 5% 180K 0. 82 5% | 1/10 1/10 50% 1/10 | W W |
| C1862 C1863 C1867 C1892 | 1-124-657-00 1-136-104-00 1-126-103-11 1-163-989-11 | FILM ELECT | 10MF 0.16MF 470MF 0.033MF | 20% 5% 20% 10% | 50V 200V 16V 25V | R1875 R1877 R1878 R1881 R1882 | 1-216-683-11 1-216-097-00 1-260-091-11 1-260-091-11 1-215-869-11 | METAL GLAZE CARBON CARBON | 22K 0. 100K 5% 220 5% 220 5% 1K 5% | 1/2W 1/2W | W |
| CN1823 CN1841 CN1842 | *1-573-299-11 *1-568-878-51 1-508-784-00 | CONNECTOR, B PIN, CONNECT PIN, CONNECT | OR 3P | | | R1893 R1894 R1895 R1898 R1899 | 1-216-474-11 1-216-073-00 1-216-097-00 1-216-037-00 1-216-037-00 | METAL GLAZE METAL GLAZE METAL GLAZE | 82 5% 10K 5% 100K 5% 330 5% 330 5% | 1/10 1/10 1/10 | W W W |
| 21010 | < DIO | | | | | | < VAF | RIABLE RESISTO | R > | | |
| D1840 D1841 D1856 D1867 | 8-719-302-43 8-719-914-43 8-719-914-43 8-719-987-87 | DIODE DAN202 DIODE DAN202 DIODE ERA85- | K 009TP3 | | | RV1851 RV1853 | 1-241-628-11 | RES, ADJ, CE RES, ADJ, CA | | | |
| D1868 | 8-719-987-87 | DIODE ERA85- | 009 | | | | < TRA | NSFORMER > | | | |
| D1882 D1883 | 8-719-109-89 8-719-109-89 | | | | | T1851 | | TRANSFORMER, | | | |
| | < IC | > | | | | ****** | ******* | | | ****** | ****** |
| IC1851 IC1852 IC1853 | 8-759-708-05 8-759-135-80 8-759-902-21 | IC UPC358C | | | | | *A-1644-040-A | VM BOARD, CO ************************************ | MPLETE ***** | | |
| | < COI | IL > | | | | C1701 | 1-124-119-00 | | 330MF | 20% | 16V |
| L1841 L1843 L1852 | 1-459-075-00 1-459-104-00 1-459-390-00 | COIL, DYNAMIC | ORE | CHOKE | | C1702 C1703 C1704 C1705 | 1-101-880-00 1-102-115-00 1-161-830-00 1-124-120-11 | CERAMIC CERAMIC CERAMIC | 47PF 560PF 0.0047MF 220MF | 5% 10% 20% | 50V 50V 500V 16V |
| | < TRA | NSISTOR > | | | | C1706 | 1-123-935-00 | | 33MF | 20% | 160V |
| Q1840 Q1841 Q1851 Q1854 | 8-729-920-74 8-729-195-82 8-729-920-74 8-729-216-22 | TRANSISTOR 2 TRANSISTOR 2 TRANSISTOR 2 | SC2958-L SC2412K-QR SA1162-G | | | C1707 C1708 C1709 C1710 | 1-124-907-11 1-101-006-00 1-108-704-11 1-136-207-11 | CERAMIC MYLAR | 10MF 0.047MF 0.1MF 0.047MF | 20% 10% 10% | 50V 50V 200V 250V |
| Q1855 Q1856 Q1857 Q1858 | 8-729-920-74 8-729-017-05 8-729-122-03 8-729-920-92 | TRANSISTOR 2 | SA1837 SA1220A-P | | | C1711 C1712 C1713 C1714 C1716 | 1-162-318-11 1-124-799-11 1-162-318-11 1-136-207-11 1-124-907-11 | ELECT CERAMIC FILM | 0.001MF 2.2MF 0.001MF 0.047MF 10MF | 10% 20% 10% 10% 20% | 500V 160V 500V 250V 50V |
| Q1859 Q1860 | 8-729-216-22 8-729-920-74 | TRANSISTOR 2 | SA1162-G | | | C1718 | 1-124-907-11 | | 220MF | 20% | 16V |
| Q1861 | 8-729-017-06 | | | | | C1719 | 1-124-927-11 | ELECT | 4.7MF | 20% | 50V |
| | < RES | SISTOR > | | | | | < CON | NECTOR > | | | |
| JR1851 | 1-216-295-00 | | 0 5% | 1/10 | W | CN1819 CN1830 | *1-568-882-51 *1-568-878-51 | | | | |
| R1841 | 1-216-085-00 | METAL GLAZE | 33K 5% | 1/10 | W | | | | | | |









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| REF.NO. | PART NO. | DESCRIPTION | | REMARK | REF.NO. | PART NO. | DESCRIPTIO | N | | REMARK | |
| | < DIO | DE _. > | | | | *1-648-314-11 | H1 BOARD, COM | | | | |
| D1701 D1702 D1703 D1704 | 8-719-901-33 8-719-901-33 | DIODE 1SS133 DIODE 1SS133 DIODE 1SS133 DIODE MTZJ-39C | | | C083 | | PACITOR > | | 10% | 25V | |
| D1705 | | DIODE MTZJ-39C | | | C087 | 1-163-037-11 | CERAMIC CHIP | 0.022MF | 10% | 25V | |
| D1706 D1707 | 8-719-901-33 8-719-901-33 | DIODE 1SS133 DIODE 1SS133 | | | | < COM | NECTOR > | | | | |
| | < COI | L > | | | CN1008 | *1-564-516-11 | PLUG, CONNECT | OR 13P | | | |
| L1702 | 1-408-418-00 | INDUCTOR 56UH | | | | < CO1 | L > | | | | |
| | < TRA | NSISTOR > | | | L081 L082 | 1-408-409-00 1-408-409-00 | | 10UH 10UH | | | |
| Q1701 | | TRANSISTOR 2SC2785-H | ?E | | < RESISTOR > | | | | | | |
| Q1702 Q1703 | 8-729-017-05 | TRANSISTOR 2SA733-K TRANSISTOR 2SA1837 | 4700) | | JR021 | 1-216-295-00 | METAL GLAZE | 0 5% | 1/100 | ñ | |
| Q1704 | *4-368-683-21 8-729-119-78 | SPRING, TRANSISTOR (C TRANSISTOR 2SC2785-H | | | R081 | 1-216-073-00 | | 10K 5% | 1/10V | | |
| Q1705 | | TRANSISTOR 2SC4793 | 170E\ | | R082 R083 R084 | 1-216-065-00 1-216-057-00 1-216-202-00 | METAL GLAZE | 4.7K 5% 2.2K 5% | 1/10V 1/10V 1/8W | W | |
| Q1706 Q1707 | 8-729-119-78 | SPRING, TRANSISTOR ((TRANSISTOR 2SC2785-HE TRANSISTOR 2SD774-34 | ?E | | R085 | 1-216-202-00 | | 1.5K 5% 1.5K 5% | 1/8W | | |
| | | | | | | < SWI | TCH > | | | | |
| Q1708 Q1709 | | TRANSISTOR 2SC2551-0 | | | S081 S082 | 1-571-532-21 | SWITCH, TACTI SWITCH, TACTI | L | | | |
| | < RES | SISTOR > | | | 5083 | 1-571-532-21 | SWITCH, TACTI | L | | | |
| R1701 R1702 | 1-247-807-31 1-249-420-11 | | 5% 1/4W 5% 1/4W | | ****** | ********** | ********* | ******* | ***** | ****** | |
| R1703 | 1-247-807-31 | CARBON 100 5 | 5% 1/4W | | | *1-650-759-11 | | | | | |
| R1704 R1705 | 1-249-420-11 1-247-736-11 | | 5% 1/4W 5% 1/2W | | | | ****** | | | | |
| R1706 | 1-249-414-11 | CARBON 560 5 | 5% 1/4W | F | | < CON | NECTOR > | | | | |
| R1707 | 1-249-412-11 | CARBON 390 | 5% 1/4W | | CN1132 | *1-568-882-51 | PIN, CONNECTO | R 7P | | | |
| R1709 R1710 | 1-249-416-11 1-249-385-11 | | 5% 1/4W 5% 1/4W | | | < DIO | DE > | | | | |
| R1711 | 1-249-432-11 | | 5% 1/4W | | D092 | 0_710_0/0_31 | DIODE LD-201V | D | | | |
| R1712 R1713 | 1-249-435-11 1-249-438-11 | | 5% 1/4W 5% 1/4W | | D093 D094 | 8-719-948-31 | DIODE LD-201V DIODE LD-201V | R | | | |
| R1714 | 1-249-438-11 | CARBON 10K | 5% 1/4W | | D094 | | | ĸ | | | |
| R1715 R1716 | 1-216-476-11 1-249-417-11 | | 5% 3W 5% 1/4W | | | < IC | > | | | | |
| R1717 | 1-249-432-11 | CARBON 18K | 5% 1/ 4 W | | IC091 | 8-741-101-75 | IC SBX1610-11 | | | | |
| R1718 | 1-249-410-11 | CARBON 270 | 5% 1/4W | | | < RES | ISTOR > | | | | |
| R1719 R1720 | 1-249-419-11 1-249-441-11 | | | | R091 | 1-249-413-11 | CARBON | 4 70 5% | 1/ 4 W | | |
| R1721 | 1-249-414-11 | | 5% 1/4W | | | ****** | | | | | |
| R1722 | 1-249-385-11 | | 5% 1/4W | | | | | | | | |
| R1723 R1724 | 1-249-429-11 1-249-436-11 | | 5% 1/4W 5% 1/4W | | | *A-1651-057-A | J BOARD, COMP | | | | |
| R1725 R1726 | 1-249-417-11 1-249-411-11 | CARBON 1K | 5% 1/4W 5% 1/4W | | | < CAP | ACITOR > | | | | |
| R1727 | 1-249-402-11 | | 5% 1/4W | F | C281 | 1-124-119-00 | ELECT | 330MF | 20% | 16V | |
| R1729 R1731 | 1-216-451-11 | METAL OXIDE 120 | 5% 2W | F | C295 | 1-163-009-11 | CERAMIC CHIP | 0.001MF | 10% | 50V 50V | |
| R1732 | 1-249-420-11 1-249-426-11 | | | | C296 C906 | 1-163-009-11 1-101-004-00 | CERAMIC CHIP | 0.001MF 0.01MF | 10% | 50V | |
| R1734 | 1-249-419-11 | | | | C910 | | CERAMIC CHIP | | 10% | 50V | |
| ****** | ********************** | | | | | 1-163-133-00 | CERAMIC CHIP | 470PF | 10% 5% 5% | 50V 50V 50V | |
| | | | | | C913 | T T03-T33-00 | OPPRESSIO CHILL . | ., U. E | ٥٠ ت | | |



| REF.NO. | PART NO. | DESCRIPTION | | REMARK | REF.NO. | PART NO. | DESCRIPTION | ON | | REMARK | |
|---|--|---|--------------------------------------|---------------------------------|---|--|---|-------------------------------------|----------------------------|--|--|
| C914 C915 | | CERAMIC CHIP 150PF CERAMIC CHIP 150PF | 5% 5% | 50V 50V | JR924 JR926 | 1-216-296-00 1-216-296-00 | | 0 | 5% 5% | 1/8W 1/8W | |
| C916 C917 C922 C923 C924 | 1-163-017-00 1-124-477-11 | CERAMIC CHIP 1MF | 10% 10% 20% | 50V 50V 16V 16V | JR927 JR928 JR935 JR942 JR952 | 1-216-296-00 1-216-296-00 1-216-296-00 1-216-296-00 1-216-296-00 | METAL GLAZE METAL GLAZE | 0 0 0 0 | 5% 5% 5% 5% 5% | 1/8W 1/8W 1/8W 1/8W 1/8W | |
| C925 C926 C927 C928 C929 | 1-124-477-11 1-164-346-11 1-124-477-11 1-124-477-11 1-124-477-11 | CERAMIC CHIP 1MF ELECT 47MF ELECT 47MF | 20% 20% 20% 20% | 16V 16V 16V 16V 16V | JR954 JR955 JR956 JR957 | 1-216-295-00 1-216-296-00 1-216-295-00 1-216-295-00 | METAL GLAZE METAL GLAZE METAL GLAZE | 0 0 0 | 5% 5% 5% 5% | 1/10W 1/8W 1/10W 1/10W | |
| C930 C931 C932 | 1-164-346-11 | CERAMIC CHIP 1MF CERAMIC CHIP 1MF | 20% | 16V 16V 16V | R283 R284 R289 R291 R292 | 1-216-073-00 1-216-073-00 1-216-055-00 1-249-413-11 1-249-413-11 | METAL GLAZE METAL GLAZE CARBON | 10K 10K 1.8K 470 470 | 5% 5% 5% 5% 5% | 1/10W 1/10W 1/10W 1/4W 1/4W | |
| | < CO1 | NNECTOR > | | | R911 | 1-216-022-00 | METAL GLAZE | 75 | 5% | 1/10W | |
| CN1209 CN1210 CN1240 | *1-564-522-11 *1-564-519-11 | CONNECTOR, BOARD TO BOA PLUG, CONNECTOR 7P PLUG, CONNECTOR 4P | RD 50P | | R921 R922 R923 R924 | 1-216-022-00 1-216-222-00 1-216-039-00 1-216-039-00 | METAL GLAZE METAL GLAZE | 75 10K 390 390 | 5% 5% 5% 5% | 1/10W 1/8W 1/10W 1/10W | |
| | < DIC | ODE > | | | R925 | 1-216-089-91 | METAL GLAZE | 47K | 5% | 1/10W | |
| D903 D904 D907 D908 D909 | 8-719-921-69 8-719-921-69 8-719-921-69 | DIODE MTZJ9.1 DIODE MTZJ9.1 DIODE MTZJ9.1 DIODE MTZJ9.1 DIODE MTZJ9.1 | | | R926 R927 R928 R929 | 1-216-039-00 1-216-039-00 1-216-089-91 1-216-063-00 | METAL GLAZE METAL GLAZE METAL GLAZE | 390 390 47K 3.9K | 5% 5% 5% | 1/10W 1/10W 1/10W 1/10W | |
| D910 D911 D912 D913 D914 | 8-719-921-69 8-719-921-69 8-719-921-69 | DIODE MTZJ9.1 DIODE MTZJ9.1 DIODE MTZJ9.1 DIODE MTZJ9.1 DIODE MTZJ9.1 | | | R930 R931 R932 R933 R934 | 1-216-113-00 1-216-212-00 1-216-113-00 1-216-073-00 1-216-063-00 | METAL GLAZE METAL GLAZE METAL GLAZE | 470K 3.9K 470K 10K 3.9K | 5% 5% 5% | 1/10W 1/8W 1/10W 1/10W 1/10W | |
| D915 D916 D917 D924 D925 | 8-719-921-69 8-719-921-69 8-719-921-69 8-719-921-69 | DIODE MTZJ9.1 DIODE MTZJ9.1 DIODE MTZJ9.1 DIODE MTZJ9.1 DIODE MTZJ9.1 DIODE MTZJ9.1 | | | R935 R936 R937 R938 R939 | 1-216-022-00 1-216-022-00 1-216-113-00 1-216-039-00 1-216-188-00 | METAL GLAZE METAL GLAZE METAL GLAZE | 75 75 470K 390 390 | 5% 5% 5% 5% 5% | 1/10W 1/10W 1/10W 1/10W 1/8W | |
| D926 D927 D928 D999 | 8-719-921-69 8-719-921-69 | DIODE MTZJ9.1 DIODE MTZJ9.1 DIODE MTZJ9.1 DIODE RD15ESB1 | | | R940 R941 R942 R943 R944 | 1-216-063-00 1-216-113-00 1-216-188-00 1-216-089-91 1-216-188-00 | METAL GLAZE METAL GLAZE METAL GLAZE | 3.9K 470K 390 47K 390 | 5% | 1/ 10W 1/ 10W 1/ 8W 1/ 10W 1/ 8W | |
| | < JA | CK > | | | R945 | 1-216-089-91 | | 47K | 5% | 1/ 10W | |
| J291 J903 J905 | | TERMINAL BOARD (2P) SOCKET, PIN 21P SOCKET 21P | | | R959 R960 R968 R969 | 1-216-674-11 1-216-674-11 1-216-055-00 1-216-055-00 | METAL CHIP METAL GLAZE | | | | |
| | < TR | ANSISTOR > | | | R970 | 1-216-055-00 | | 1.8K | | 1/ 10W | |
| Q281 Q282 | | TRANSISTOR 2SC2412K-QR TRANSISTOR 2SC2412K-QR | | | R977 | 1-216-055-00 | | 1.8K | | 1/ 10W | |
| | < RE | SISTOR > | | | | | | | | | |
| JR901 JR906 JR915 JR917 JR918 | 1-216-295-00 1-216-295-00 1-216-295-00 1-216-296-00 1-216-295-00 | METAL GLAZE 0 5% | 1/10 1/10 1/10 1/8W 1/10 | W | | | | | | | |
| JR919 JR920 JR921 | 1-216-296-00 1-216-295-00 1-216-295-00 | | 1/8W 1/10 1/10 | W | | | | | | | |

shading and marked A are critical for safety.
Replace only with the part number specified.

REMARK REF.NO. PART NO. DESCRIPTION DESCRIPTION REF.NO. PART NO. MISCELLANEOUS f. 1-406-807-21 COIL, DEGAUSSING f. 8-451-422-11 DEFLECTION YOKE (Y29GXA) f. 1-452-509-11 NECK ASSY, PICTURE TUBE(NA-308) 1-544-728-11 SPEAKER 1-690-270-21 CORD, POWER (WITH CONNECTOR) (KV-X2971B, X2973B) 1-590-762-11 CORD, POWER(WITH PLUG) (KV-X2972U) t 1-751-680-11 CORD, POWER(WITH NOISE FILTER) (KV-X2971A, X2971D, X2971K) V901 4 8-733-841-05 PICTURE TUBE (M68KZT10X)

REMARK

ACCESSORIES AND PACKING MATERIALS

4-202-606-11 MANUAL, INSTRUCTION (KV-X2971D)
(GERMAN/ENGLISH//DUTCH/GREEK)
4-202-606-41 MANUAL, INSTRUCTION (KV-X2971A) (ITALIAN)
4-202-606-51 MANUAL, INSTRUCTION (KV-X2971B)
(GERMAN/FRENCH/ITALIAN)

4-202-606-61 MANUAL, INSTRUCTION (KV-X2972U) (ENGLISH)
4-202-606-71 MANUAL, INSTRUCTION (KV-X2973E) (SPANISH)
4-202-606-81 MANUAL, INSTRUCTION (KV-X2973E)

(FRENCH/DUTCH/SWEDISH/DANISH/GERMAN FINNISH/NORWEGIAN/PORTUGUESE)

4-202-606-91 MANUAL, INSTRUCTION (KV-X2971K) (GERMAN/ENGLISH/RUSSIAN/HUNGARIAN/POLISH)

*4-039-906-01 BAG, PROTECTION

*4-042-127-01 CUSHION (UPPER) (ASSY)

*4-042-126-01 CUSHION (LOWER) (ASSY)

*4-042-128-01 INDIVIDUAL CARTON

REMOTE COMMANDER

1-467-272-11 COMMANDER, STANDARD TYPE (RM-831) 9-903-466-01 POCKET COVER (FOR RM-831)